



AgLeader: Insight (AutoPilot Trimble Aftermarket)

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, 38400, or 115200

**Precision Planting Harnesses Available for communication from
AgLeader Insight to 20/20 SeedSense Monitor**

Precision Planting Harness: 725599



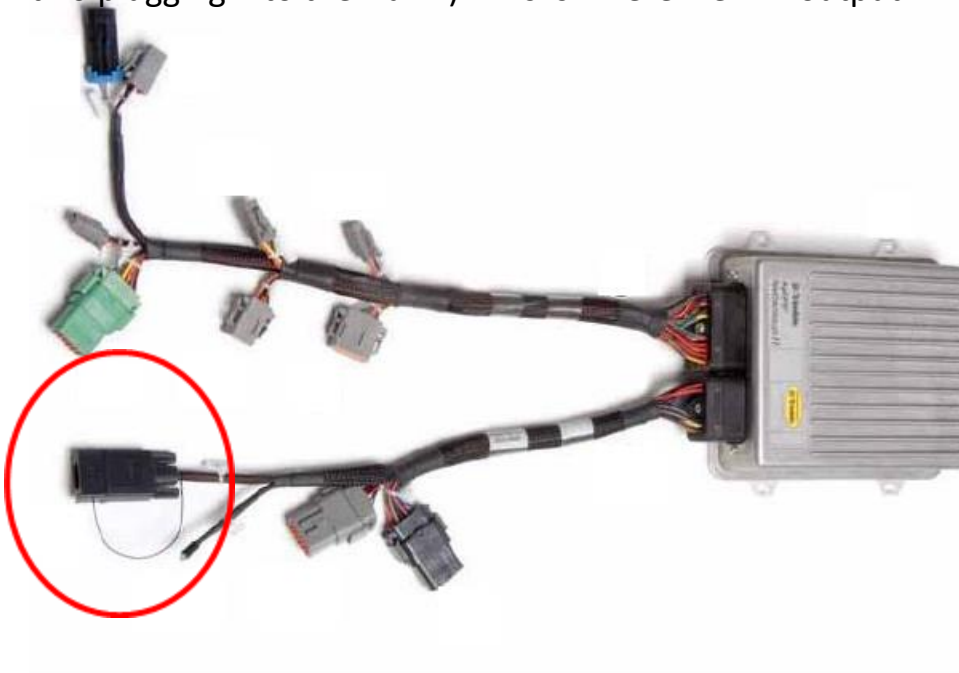
AgLeader Insight:

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

Connecting 20/20 to AgLeader Insight with Nav II Controller

First step is to locate your Nav II controller in your cab. This is typically located behind your operator's seat or underneath. The Nav II behind the seat will typically be in behind a removable plate under the cargo netting behind the operator's seat.

The 725599 Harness utilizes a 9 pin serial port. To locate the serial port on the Nav II first find the 24 pin Deutsch connector on the Nav II (it is the small of the two plugging into the Nav II). This is where we will output NMEA messages.

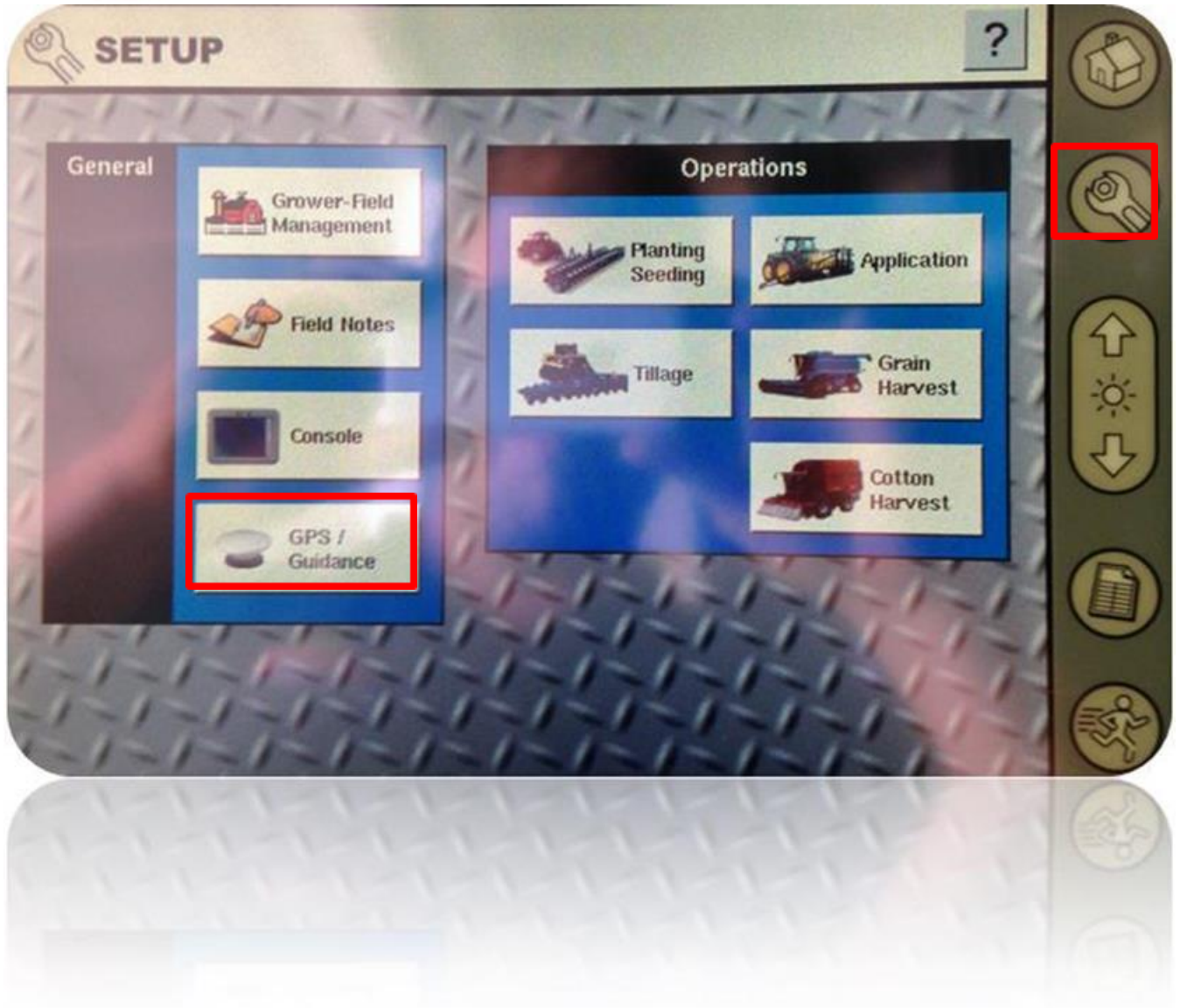


Next we will look at visual images giving instructions to output NMEA messages from the AgLeader Insight:

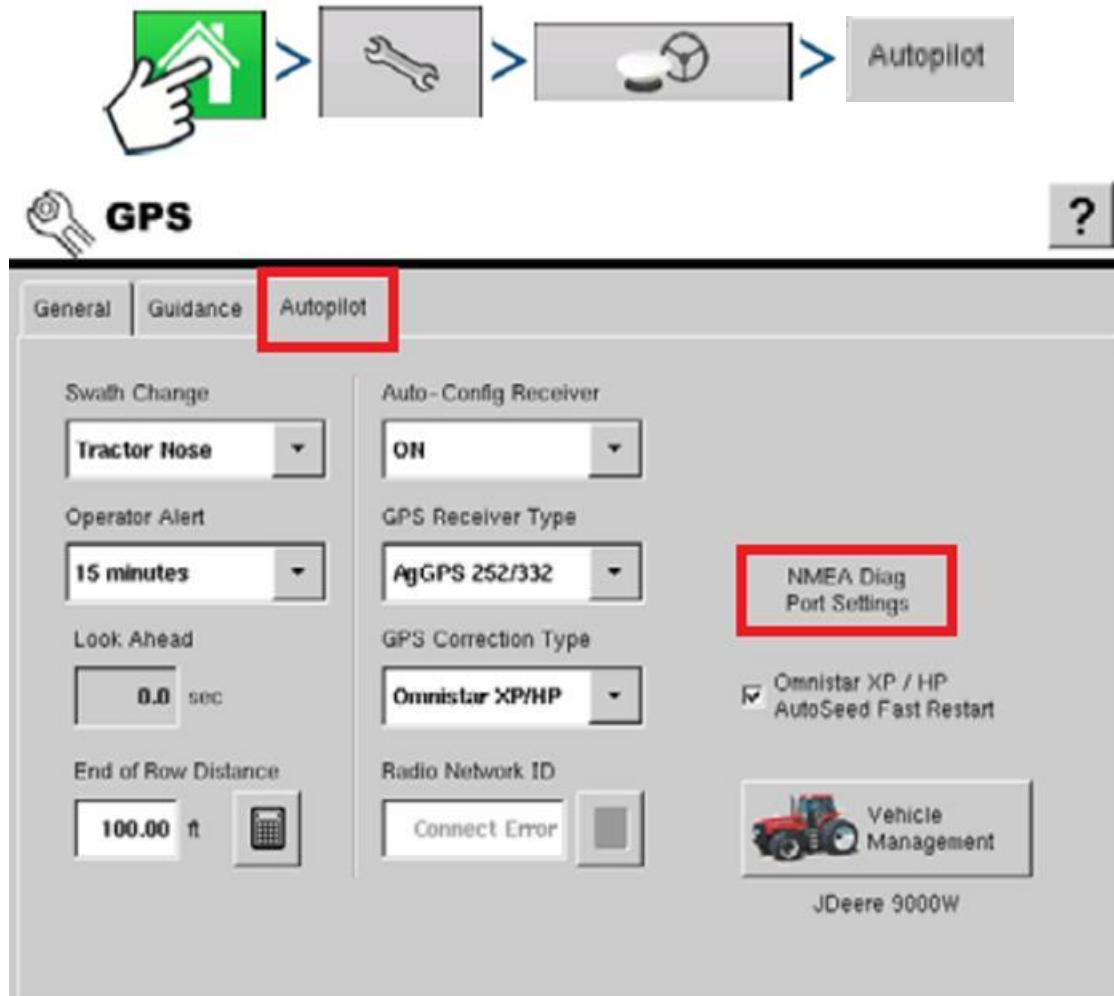
Step 1: From the home screen we will press the wrench button to take us to the setup screen.



Step 2: Press: Home button > Setup (wrench) button > GPS/Guidance



Step 3: Press: Home button > Setup (wrench) button > GPS button> Press the AutoPilot tab at the top of the screen > NMEA Diag Port Settings



Step 4: Home button > Setup (wrench) button > GPS button> AutoPilot Tab> NMEA Diag Port Settings

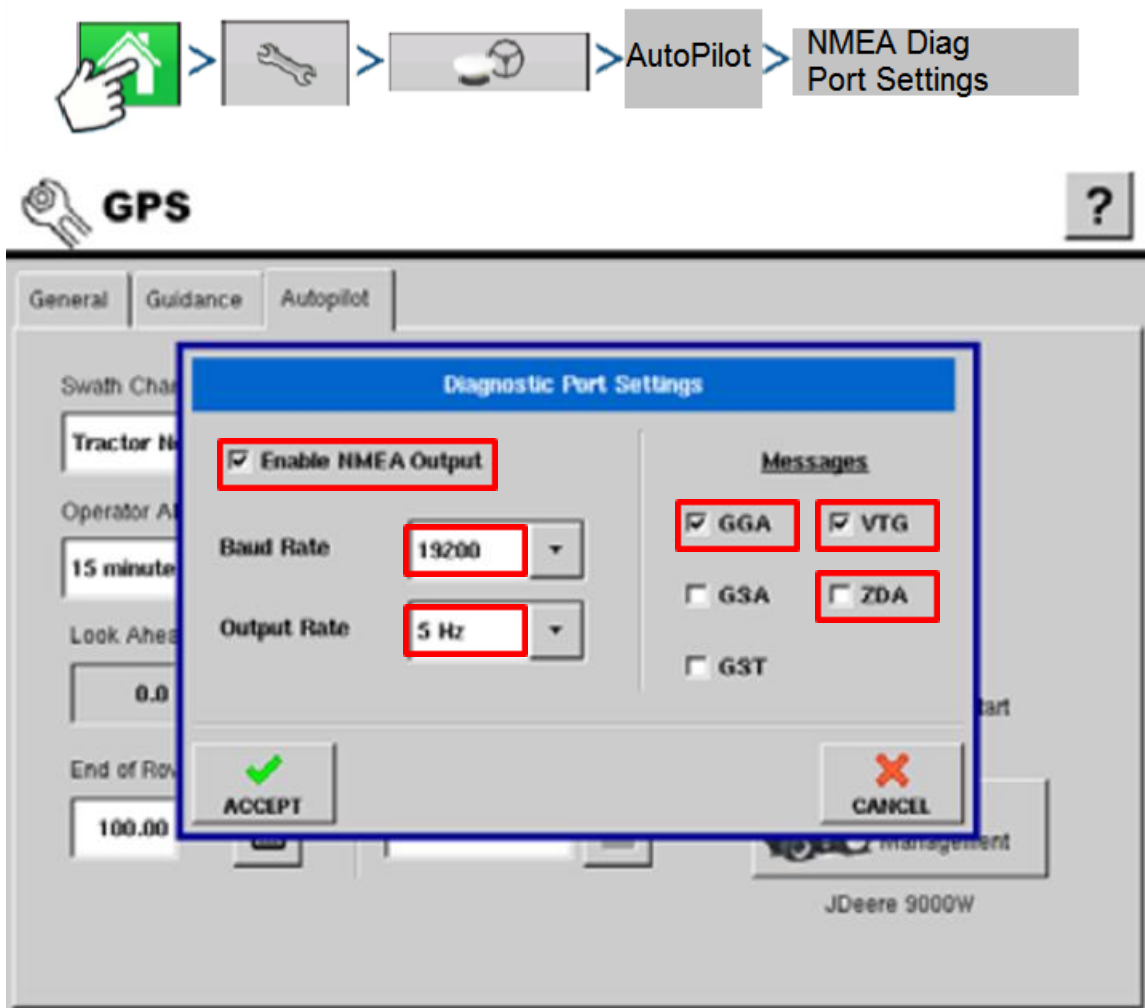
NOTE: Insight does not allow RMC output in AutoPilot. Therefore, we will replace RMC with ZDA

NMEA Messages: 5HZ

- GGA
- VTG
- ZDA

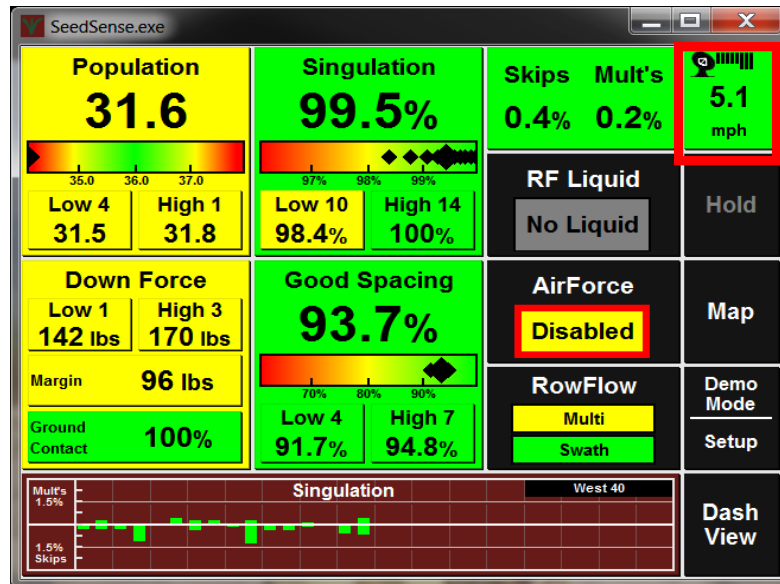
Output Baud Rate:

- 19200
- 38400
- 115200



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



Press REACQUIRE GPS:

Then Verify Communication Quality and NMEA Messages are set to 5Hz.

