

Case IH Pro 600/700 / New Holland Intelliview IV with Trimble 372/262/252/162 Receiver Installation Guide

This guide will detail the process to ensure that a Case 600/700 or New Holland Intelliview IV and a Trimble 372, 262, 252, or 162 receiver will properly communicate NMEA strings to the 20|20 monitor using the **Precision Planting Harness 727131** when the Nav 2 Controller is not present.

Note: The basic GPS requirements for the 20|20 monitor are:

- NMEA Strings : 5hz
- Baud Rate : 19200 or 38400
- GGA : Required for time, position, and fix type data.
- RMC : Required for time, date, position, course and speed data.
- VTG : Required for course and speed information relative to the ground.



Figure 1.
Precision Planting Harness 727131

Step 1:

Connect the 12-pin plug on the 727131 Harness into an open Port A or Port B on the GPS receiver. If both ports are in use, unplug the component from Port B and plug the 727131 Harness into Port B. Then plug the component that was removed from Port B into the 12-pin Y receptacle on the 727131 Harness. If using the 162 GPS receiver, only Port A will be present. In this case use the Port A configuration options throughout the rest of this guide.

Note: Only plug the 2-pin weather pack on the 727131 Harness into power if the receiver is *not* being powered by the OEM display.



Figure 2.
Port A/B Style (372, 262, 252)



Figure 3.
Port A only (162)

Step 2:

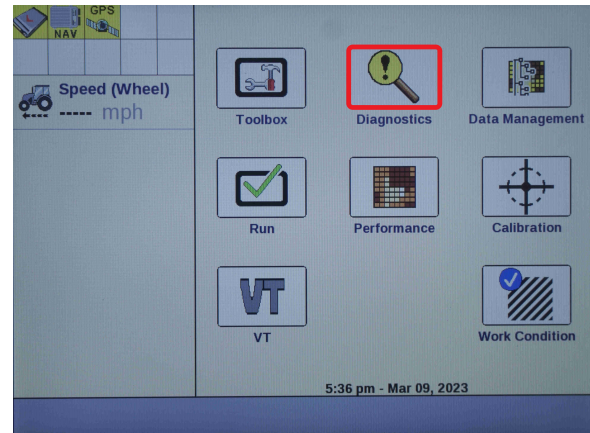
There are two 4-pin AMP connectors on the 727131 Harness labeled as Port 1 & 2, and Port 3. If an **open Port A or B** was used in Step 1, plug GPS into the 4-pin AMP connector labeled **Port 1 & 2**. If a **Y connection into Port B** was used in Step 1, plug GPS into the 4-pin AMP connector labeled **Port 3**.



Figure 4.
4-pin AMP Connectors

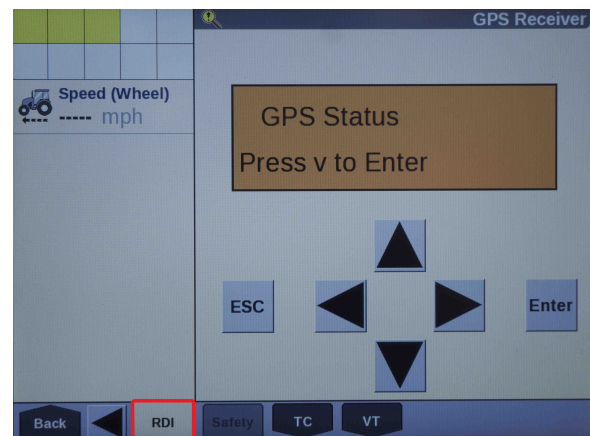
Step 3:

Access the Pro 700 display and press the **Diagnostics** button.



Step 4:

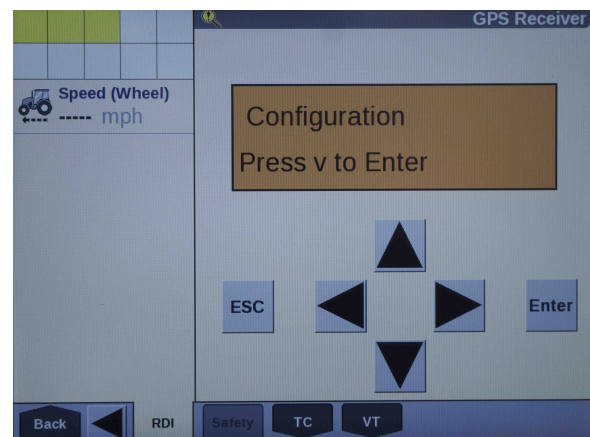
Press the RDI button to access the GPS configuration tool. If the RDI button is not visible, press the Right Arrow to scroll to the RDI button.



Step 5:

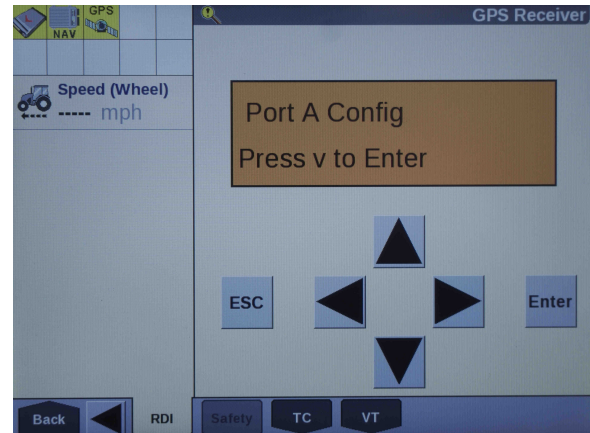
Use the arrows in the center of the screen to navigate through the different configuration screens. Use the ESC button to go back one screen. Use the Enter button to save changes.

Press the Right Arrow until the Configuration screen is displayed. Then press the Down Arrow once to enter.



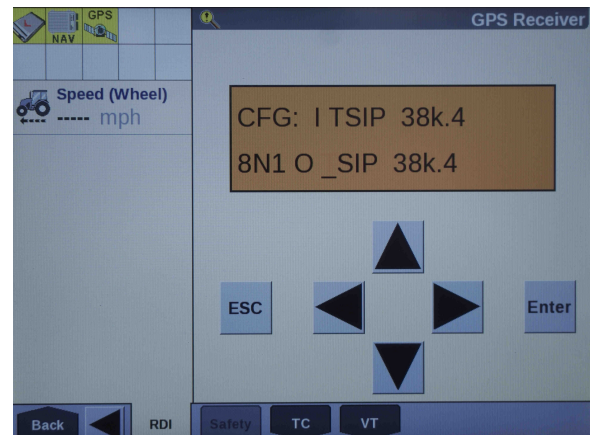
Step 6:

Navigate to either the Port A config , Port B config, or Port C config screen. If the **727131** Harness is plugged into an **open Port A**, select **Port A**. If plugged into an **open Port B**, select **Port B**. If using the **Y Connection into Port B**, select **Port C**. Press the Down Arrow to confirm the correct selection.



Step 7:

Navigate to the I TSIP configuration screen. Select **TSIP** on the second line next to **8N1 O**. Use the Up and Down Arrows to change TSIP to NMEA, then set the Baud Rate to 38400. Once the correct setting has been entered, the second line should read **8N1 O NMEA 38k.4**. After the correct Baud rate/type is selected, press Enter.

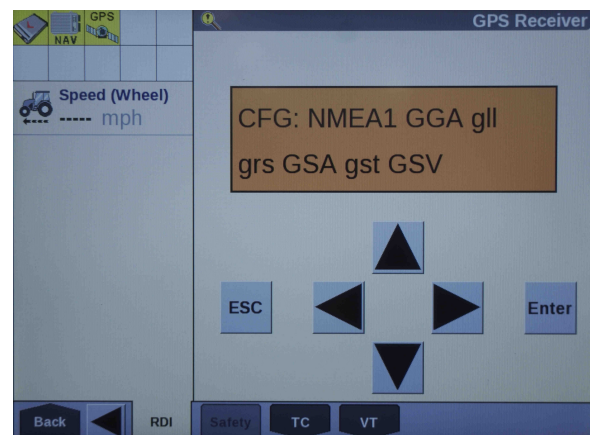


Note: In some non-specific cases the Baud Rate change (Step 7) must be the final setting change that is performed. If the 2020 is not receiving GPS output after the completion of this guide, repeat all steps starting with Step 3, skip Step 7, and return to Step 7 after completion of Step 10. Then proceed to Steps 11–13.

Step 8:

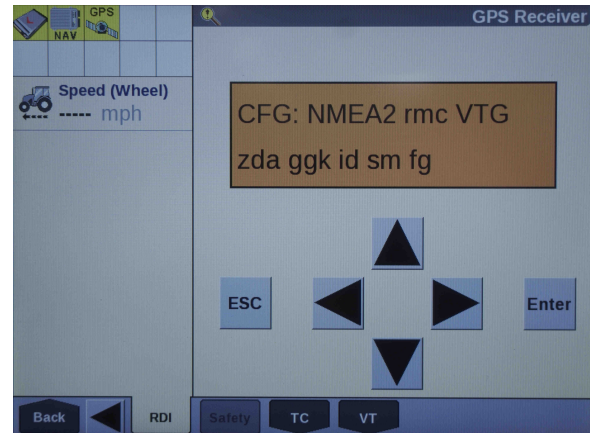
Navigate to the NMEA1 message selection screen. Set GGA to Active and press Enter.

Note: Active selections will be displayed in Uppercase/All Caps, inactive selections are displayed in Lowercase (e.g. GGA/gga)

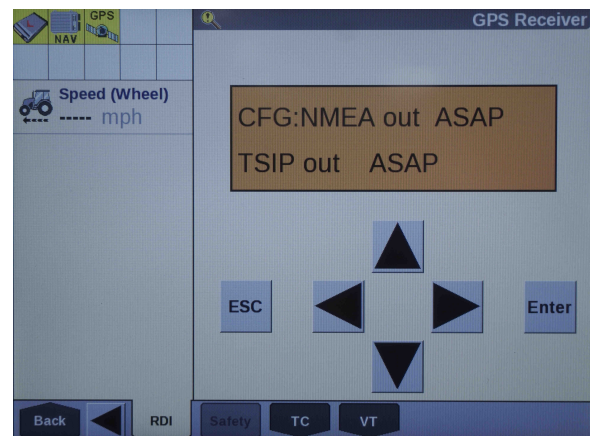


Step 9:

Navigate to the NMEA2 message selection screen. Set RMC and VTG to active and press Enter.

**Step 10:**

Navigate to the NMEA out timing screen. The default timing will be set to 1s (1Hz). Select the 1Hz setting and press the Down Arrow until it is changed to ASAP.

**Step 11:**

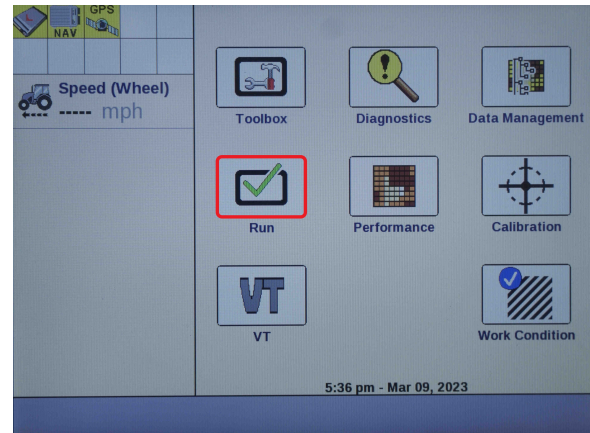
Press ESC and then press Back.

Note: The values displayed in the center box will be different on the Pro 700 Display than those in the example image.



Step 12:

Press Run to return to the Main Operating Screen.



Step 13:

If using a Gen 2 20|20, navigate to the Home Screen and press the Speed/GPS button in the upper right corner of the screen (figure 5), then press the Reacquire GPS button (Figure 6) and verify Communication Quality and NMEA strings.

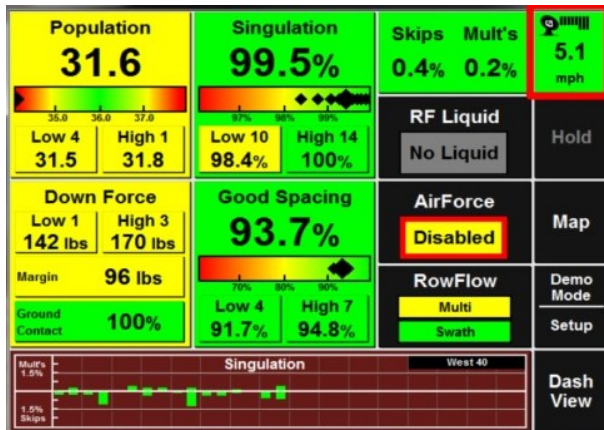


Figure 5.
Gen 2 Home Screen



Figure 6.
Gen 2 GPS Setup Screen

If using a Gen 3 20|20 GPS should reacquire automatically. If GPS does not reacquire automatically, navigate to the Home Screen and press the upper right corner of the screen where speed is displayed (Figure 7). Then press the Reacquire GPS button (Figure 8) and verify Communication and NMEA strings.

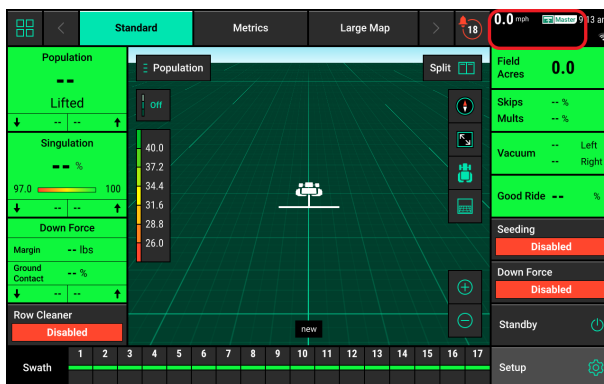


Figure 7.
Gen 3 Home Screen

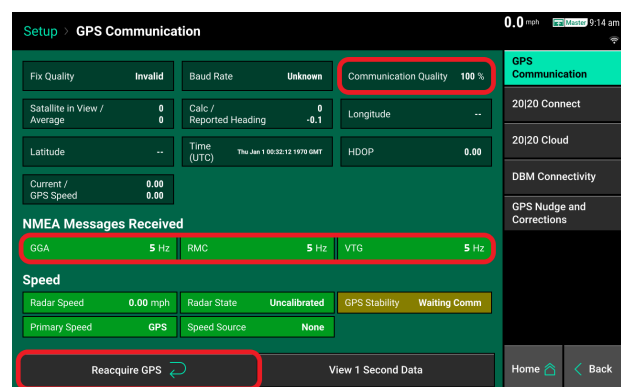


Figure 8.
Gen 3 GPS Setup Screen