

20|20

John Deere 7R and 8R Tractors with Integrated StarFire 6000

Overview

In order for the 2020 monitor to receive GPS data from a third-party receiver, then the receiver (or the display controlling it) must have NMEA strings and baud rate configured for output. The basic requirements for the 2020 monitor are:

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

Adapter harness needed: 727124 StarFire GPS harness (from Precision Planting)

**** 727124 adapters that are Rev 4 and older will need to be reworked with pass-through wires between pins 5 and 8 on the two 12-pin Deutsch connectors to send RTK signal through to Deere.**

Installation

For the integrated StarFire system, you will need to tie into the GPS module located behind the radio in the cab.

Step 1:

Remove the cover around the radio in the cab. (It should pop loose by just pulling on it, no screws)



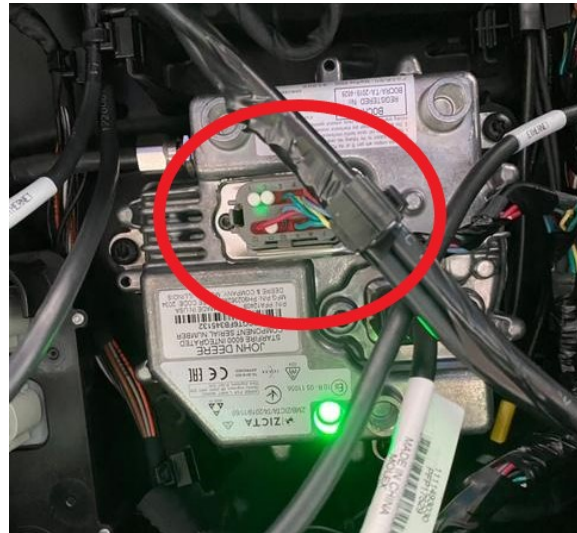
Step 2:

Remove the four screws attaching the shelf to the left of the radio, and then slide the shelf out.



Step 3:

Locate the GPS module directly behind the shelf. You will see a 12-pin plug located in the center.



Step 4:

Y into the module using the 727124 adapter harness.



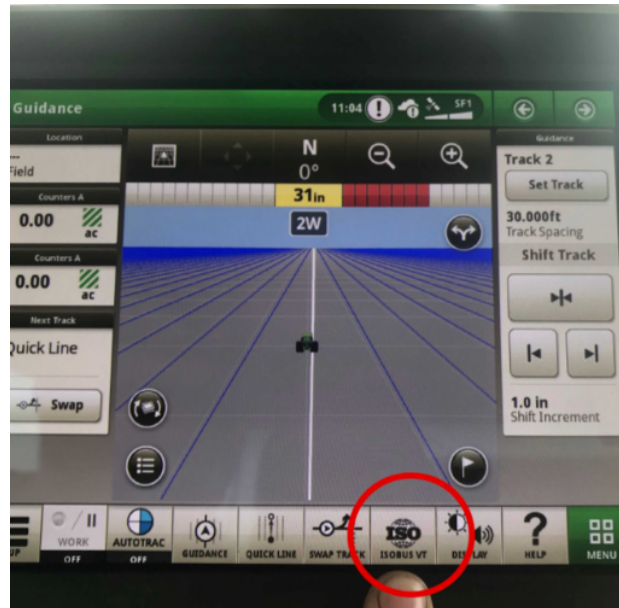
Step 5:

Route the adapter harness out from behind the radio. Reinstall the shelf and pop the cover back into place. Connect the 4-pin plug on the 727124 adapter to the GPS input on the 2020.

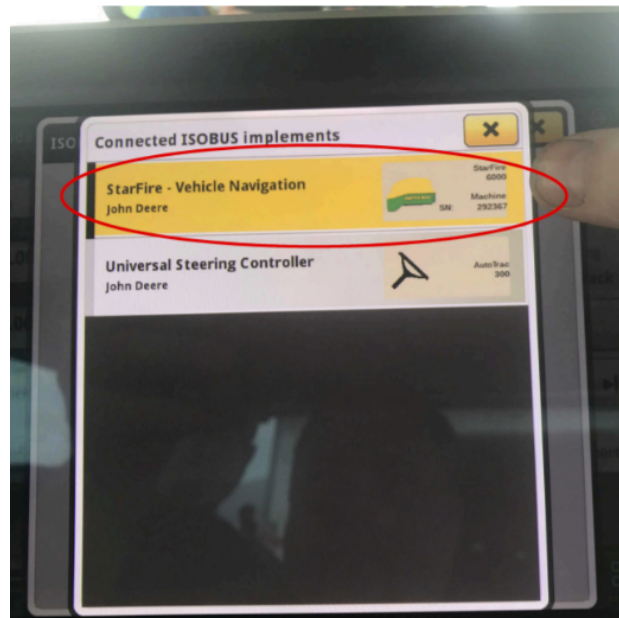
Display Configuration

Step 1:

Select ISOBUS VT at the bottom of the display

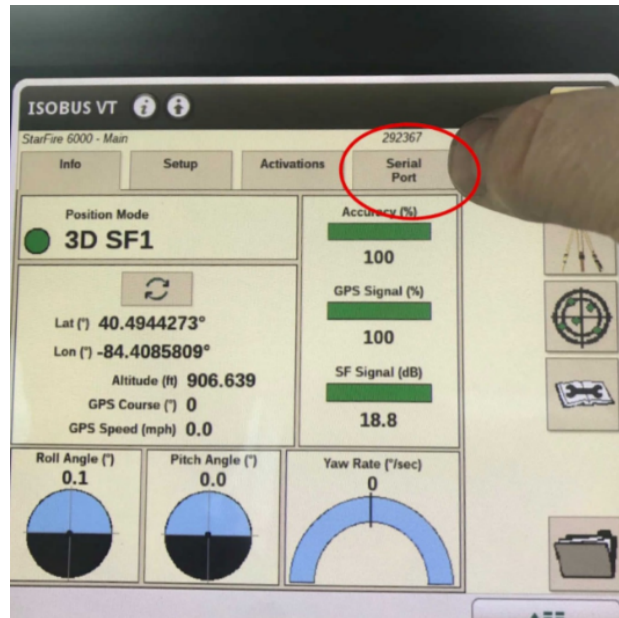
**Step 2:**

Select StarFire receiver option

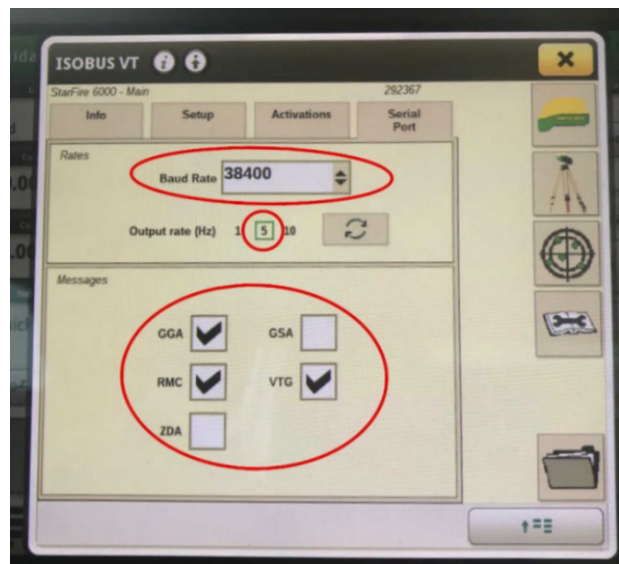


Step 3:

Select the Serial Port tab

**Step 4:**

Configure the baud rate to 38400, HZ output rate to 5, and enable GGA, RMC, and VTG messages.



Setup is complete. Reacquire GPS data in the 2020 if necessary.