



**How to set up NMEA output from a Trimble 372 receiver with a Pro700.**

**The parts that will be required are**

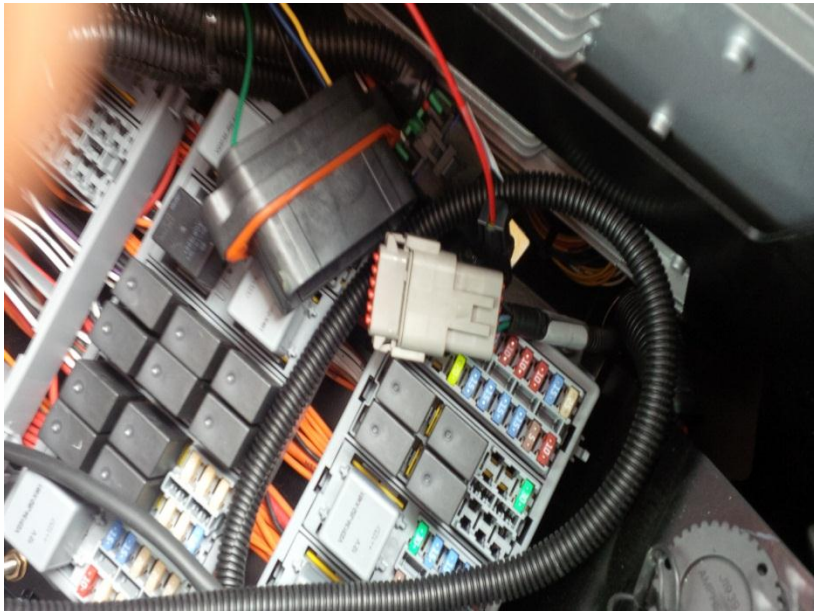
- ZTN50166 Trimble Cable**
- A serial null modem or a mini gender changer**

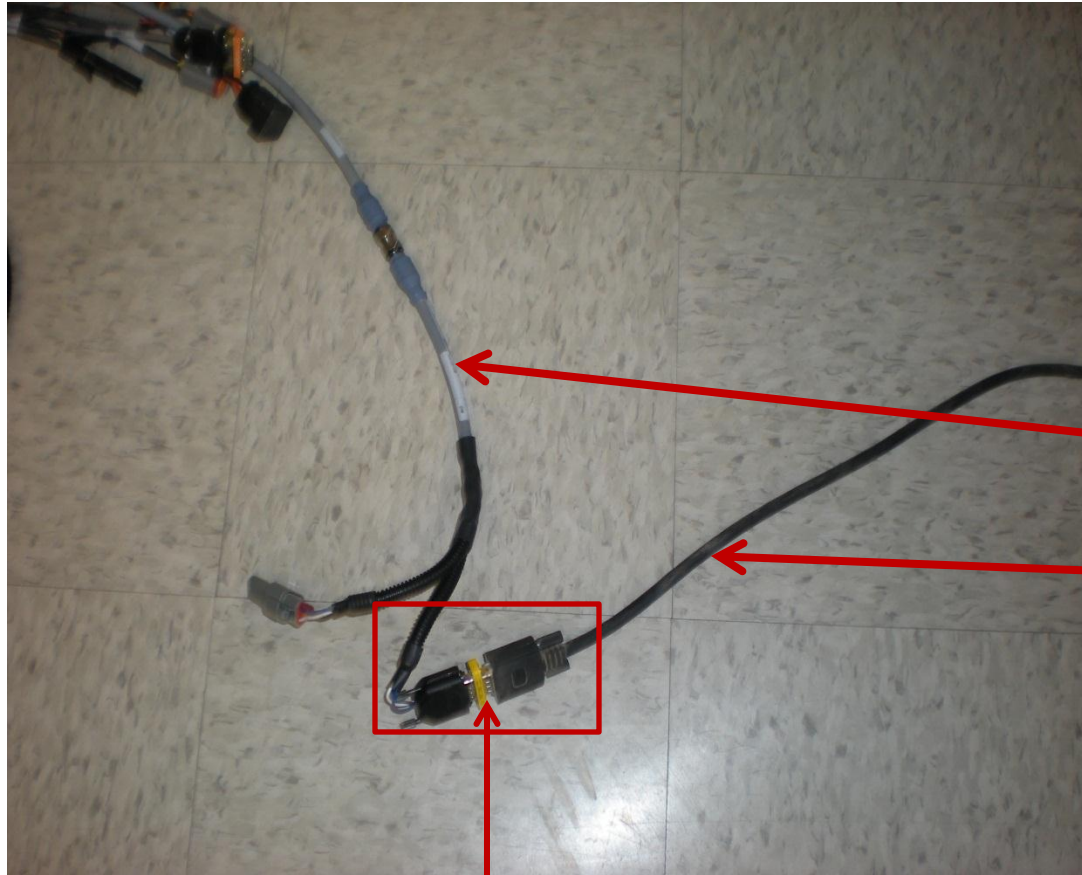


**You will need to find the NAVII Diagnostics harness that is located under the buddy seat around the fuse panel. This will plug into the ZTN50166 Trimble harness.**

**You will be using either the com 1 or the com 2 plugs on the Topcon harness to connect to the ZTN50166**

**NOTE: Do not plug the cigarette Lighter adapter in that is attached to the Trimble harness.**





Serial Gender changer

## COM 1

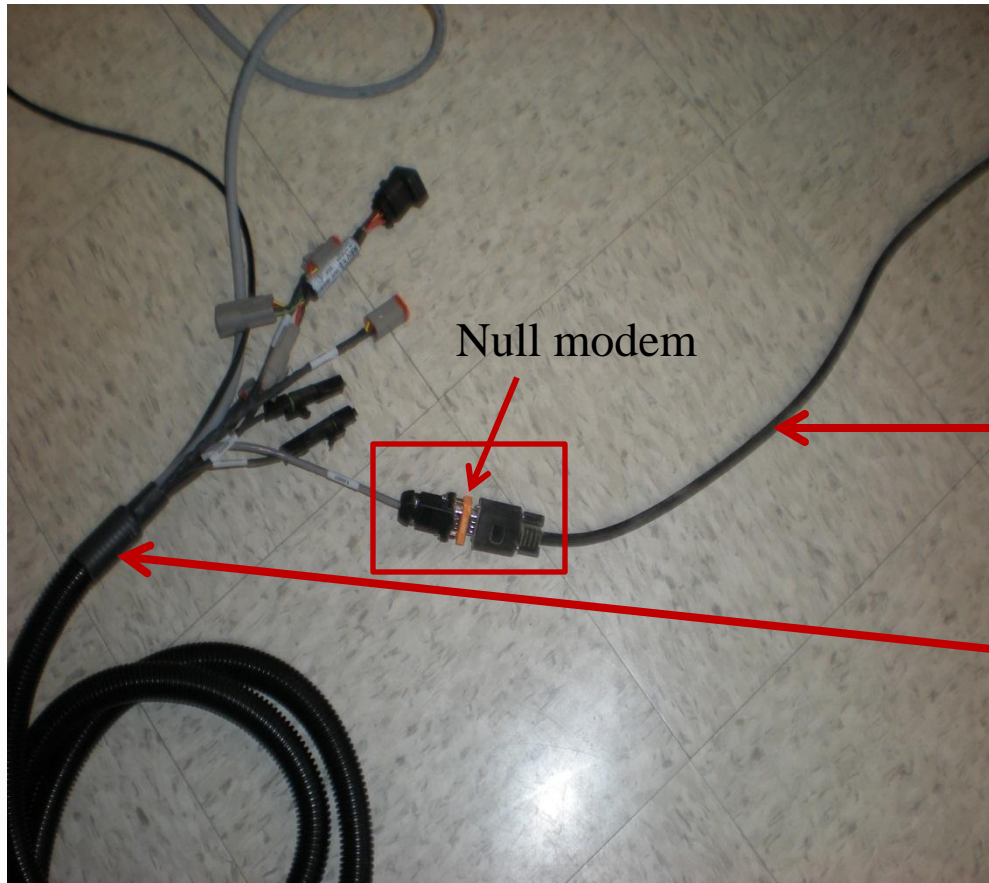
When hooking the Trimble cable 50166 to the X30 though Coms 1 you will need a serial Gender Changer.

X30 Main Harness Coms 1

Trimble 50166 Harness







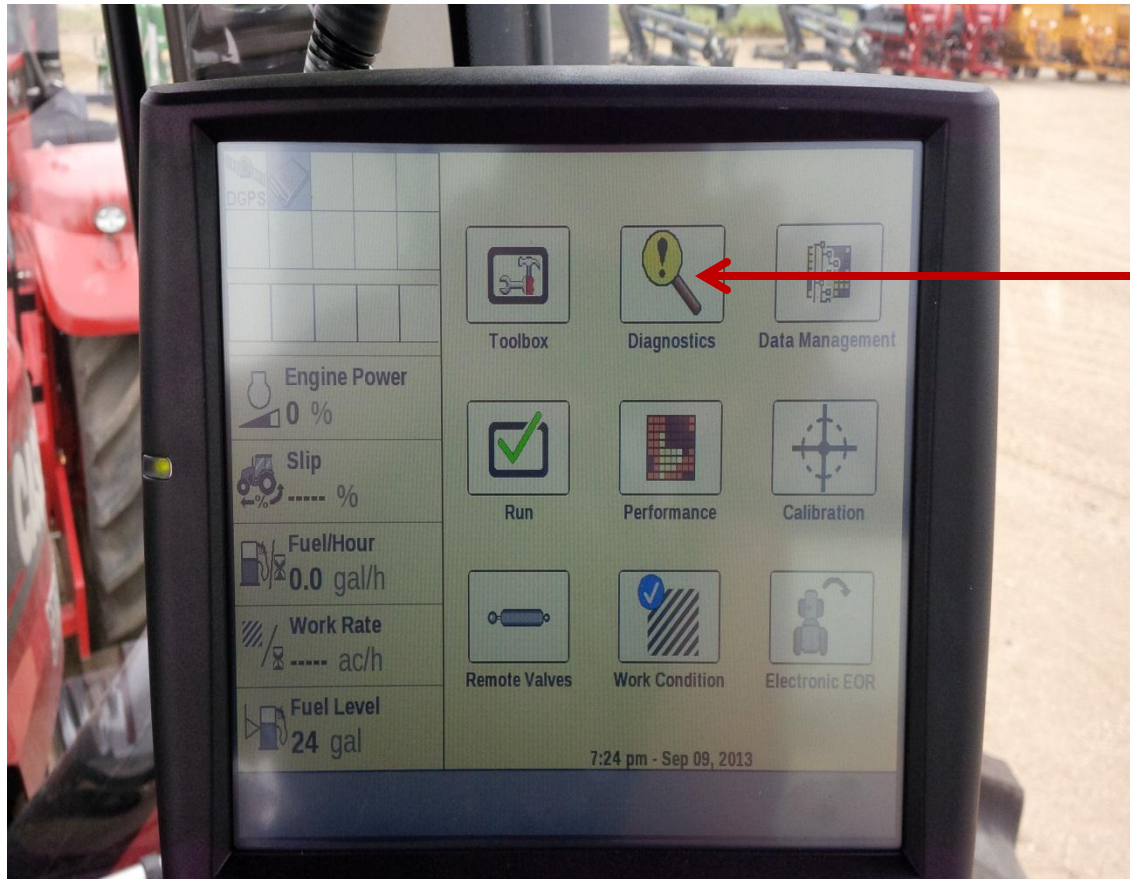
## COM 2

When hooking the Trimble cable 50166 to the X30 though Coms 2 you will need Null Modem.

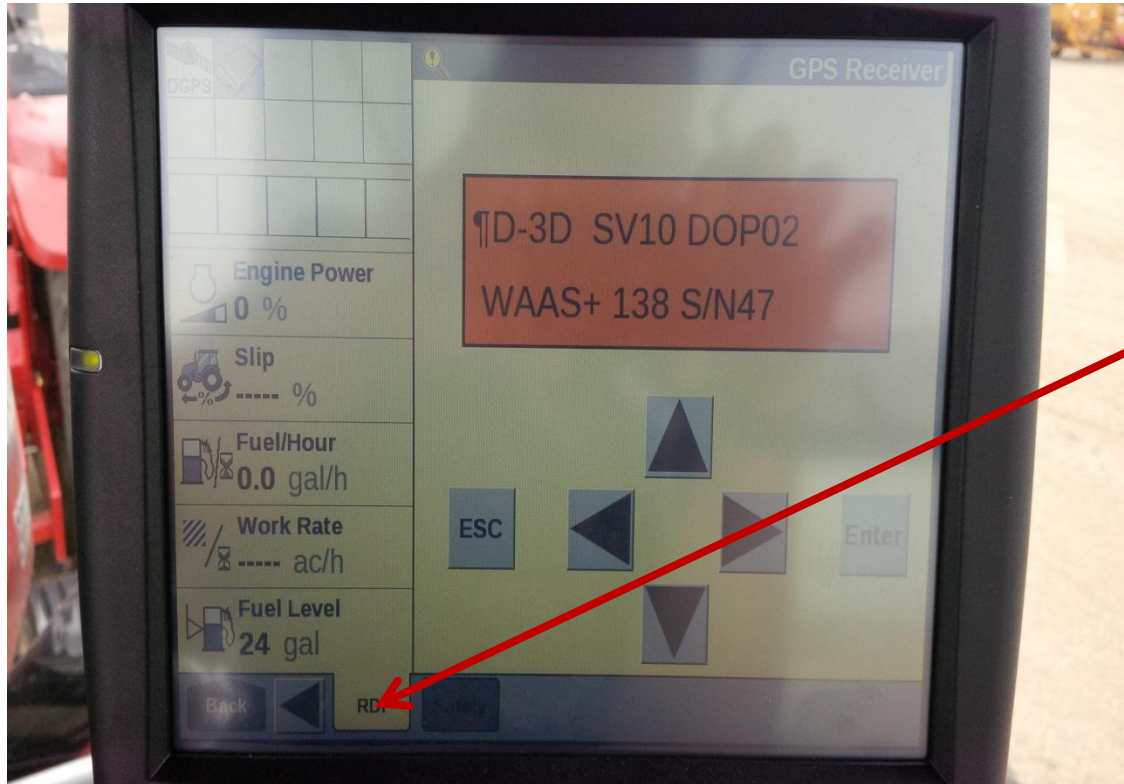
Trimble Harness 50166

X30 main Harness COM 2



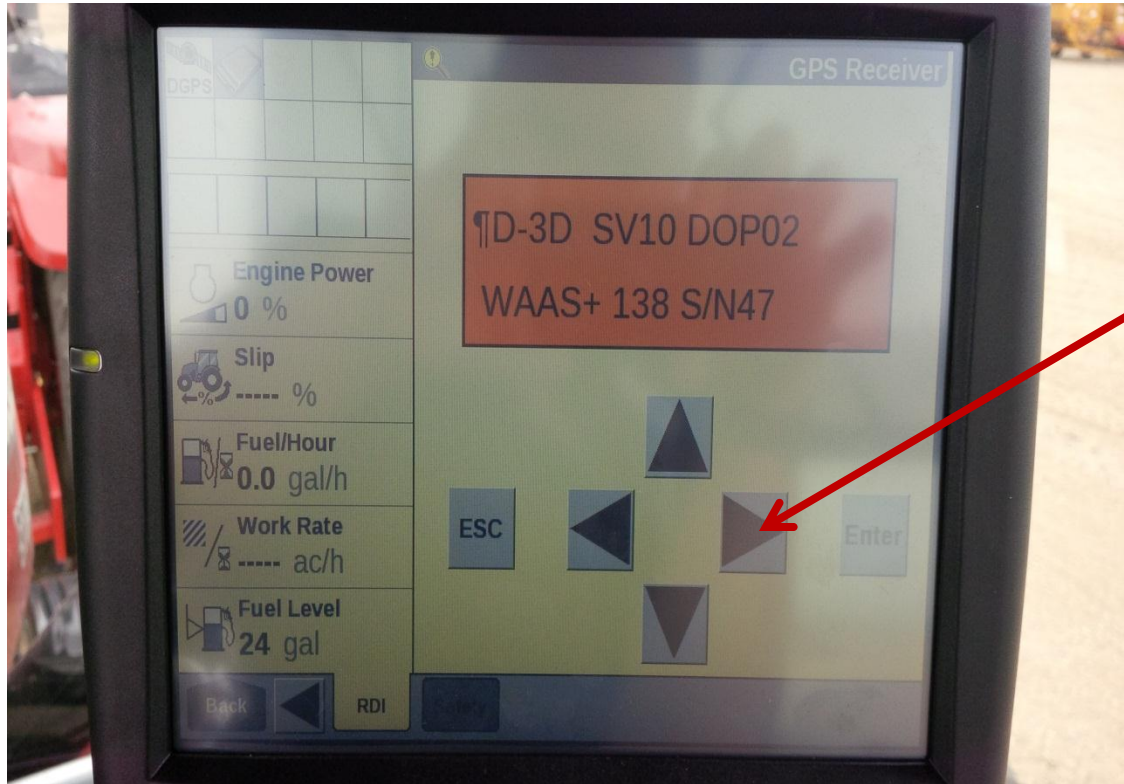


From the main screen press the Diagnostics button



Scroll to the Right and press the RDI tab



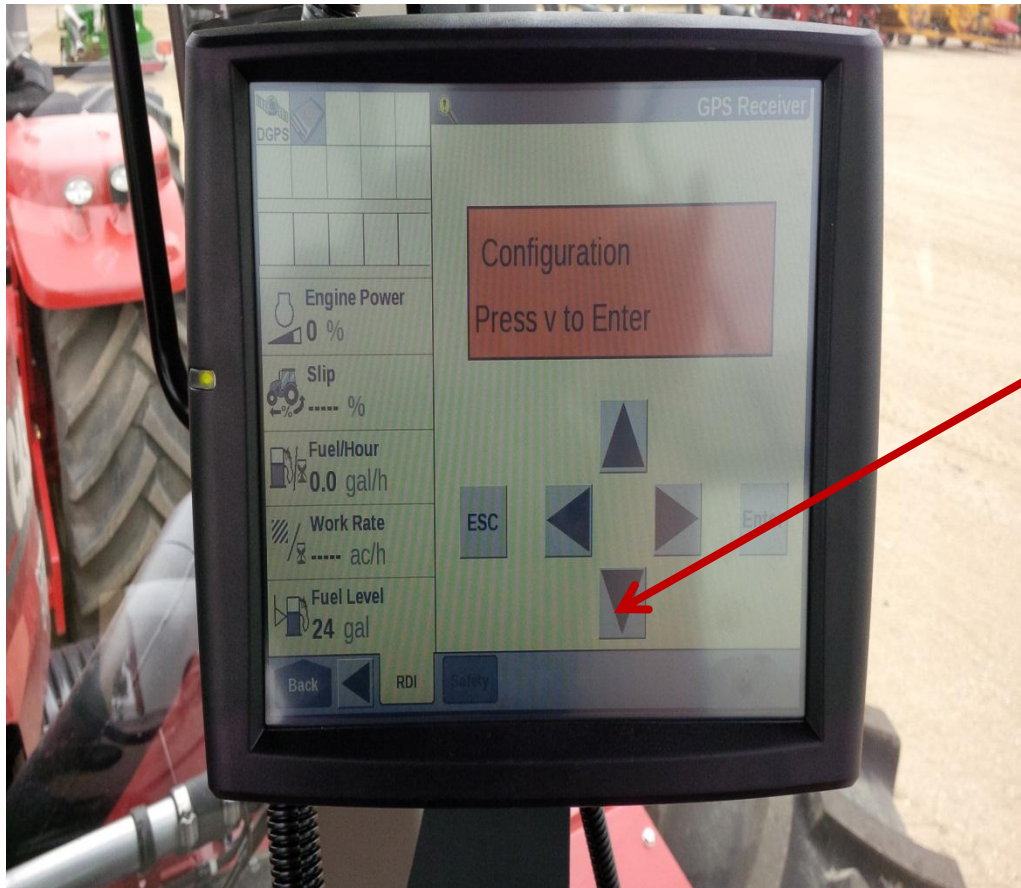


Press the right arrow



Press the right arrow again





Press down to entire the configuration menu



Press the right arrow



Press the right arrow

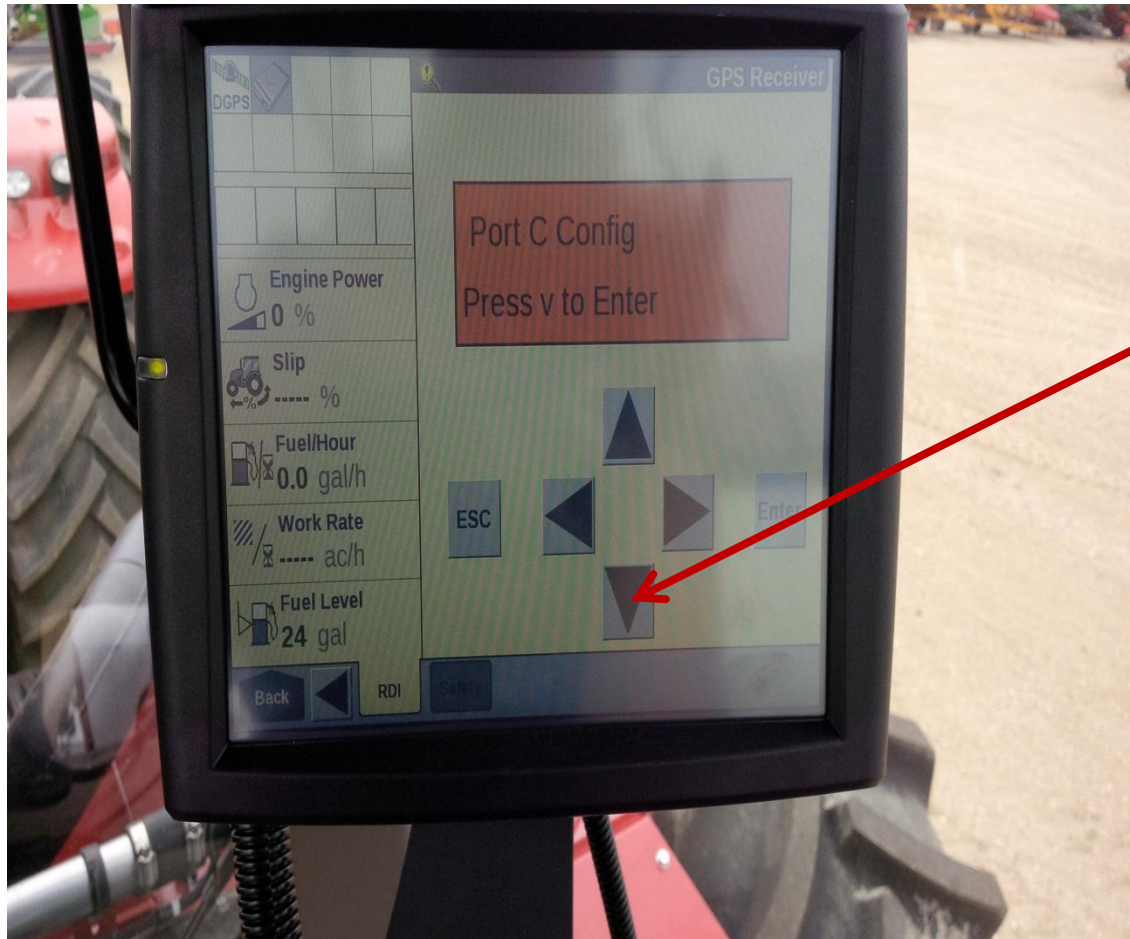




Press the right arrow

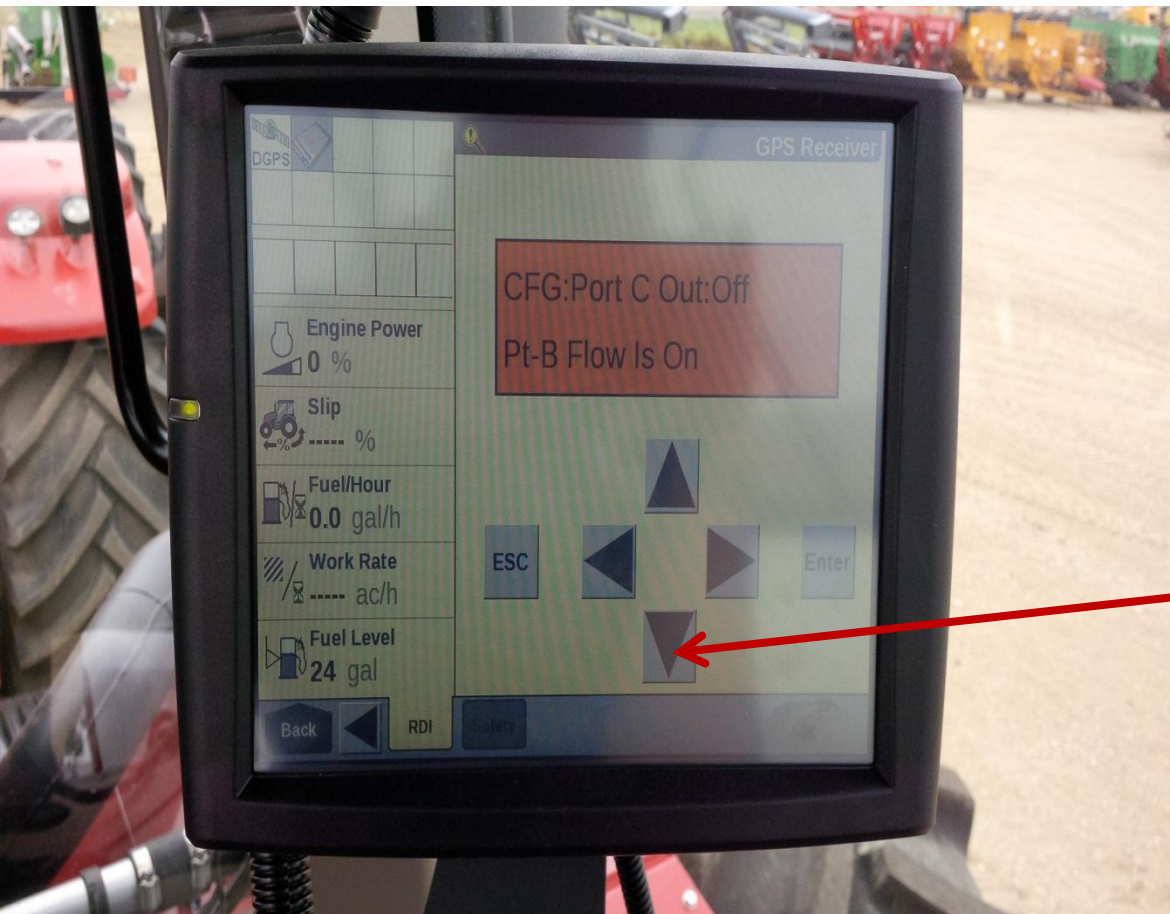


Press the right arrow



Press down to enter port C configuration





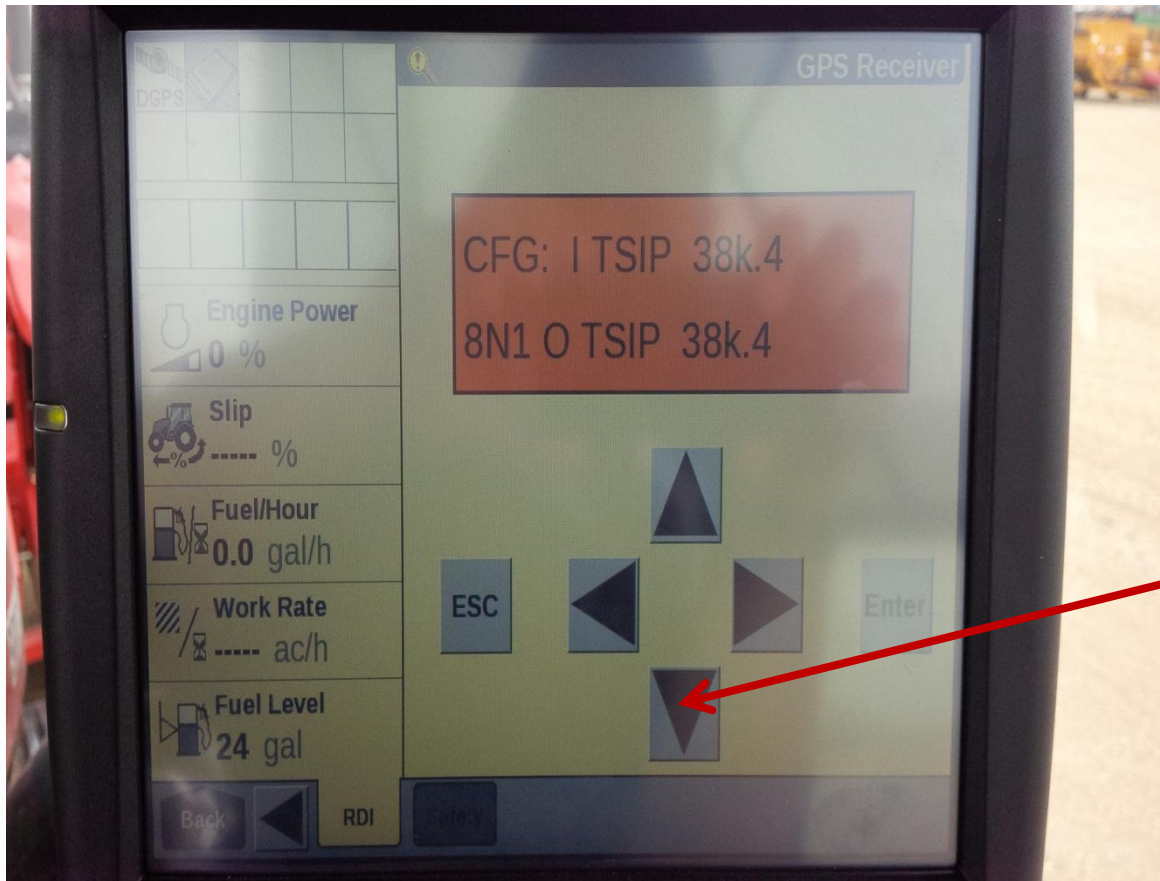
This page should be telling us that Port C out is OFF and that Port B flow is ON and this will be the proper configuration. If it is different press right , then up and enter.

Next press the down arrow until you get to the exit page.



Go back to the PORT C.

Press the down to enter port B configuration.



On this page we want to see  
I TSIP 38K.4  
8N1 0 NMEA 38K.4

If you don't have this you will  
need to re-configure.

Press the down key to move on.





This page needs to be set up as follows.

PORT B Out

RTS/CTS Off

Press the down arrow to move on



On this screen the GGA should be in Capitals

Next press the down arrow



On this screen ensure that VTG and ZDA are in capitals letters.

Next Press the down arrow



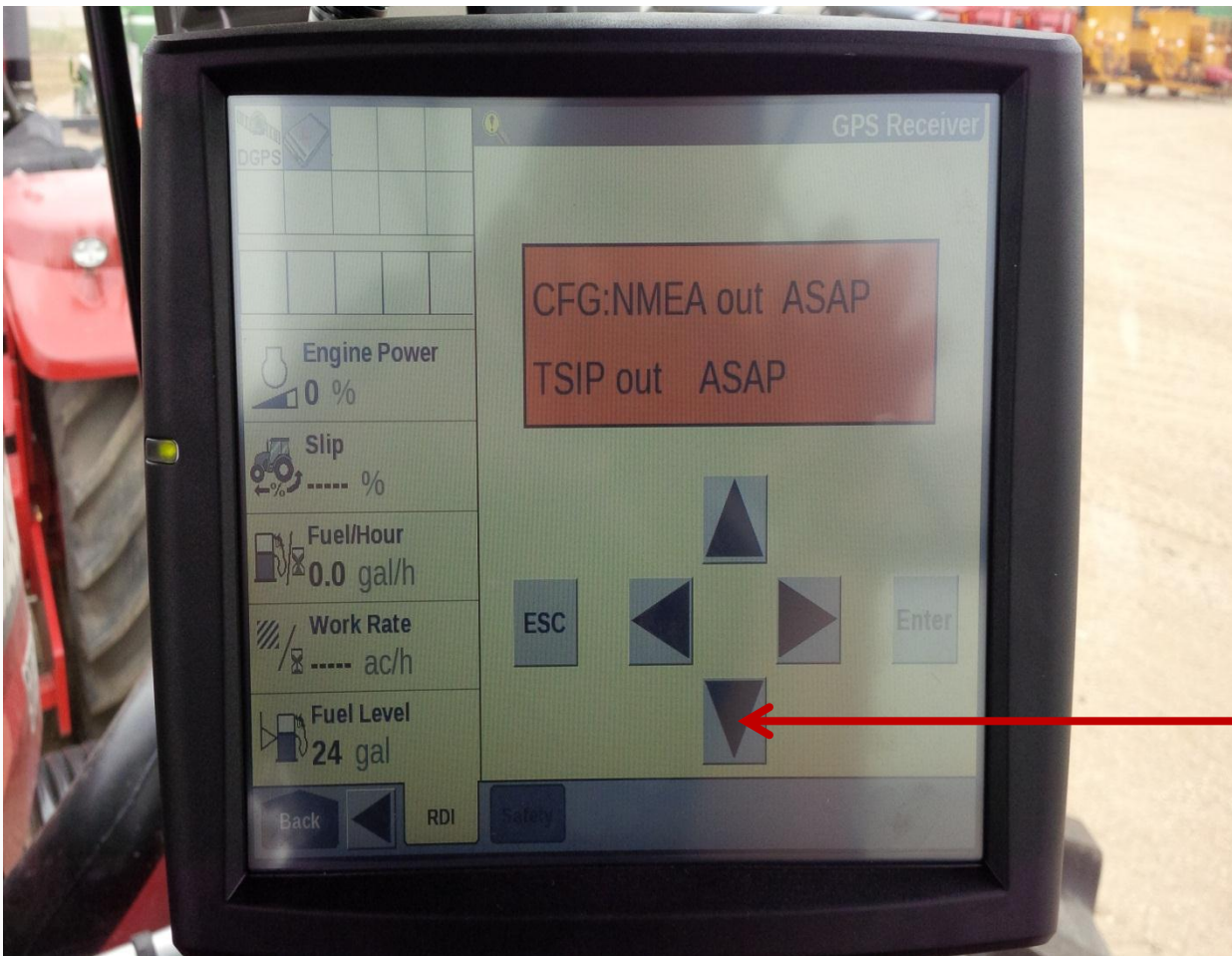


This screen should look like this

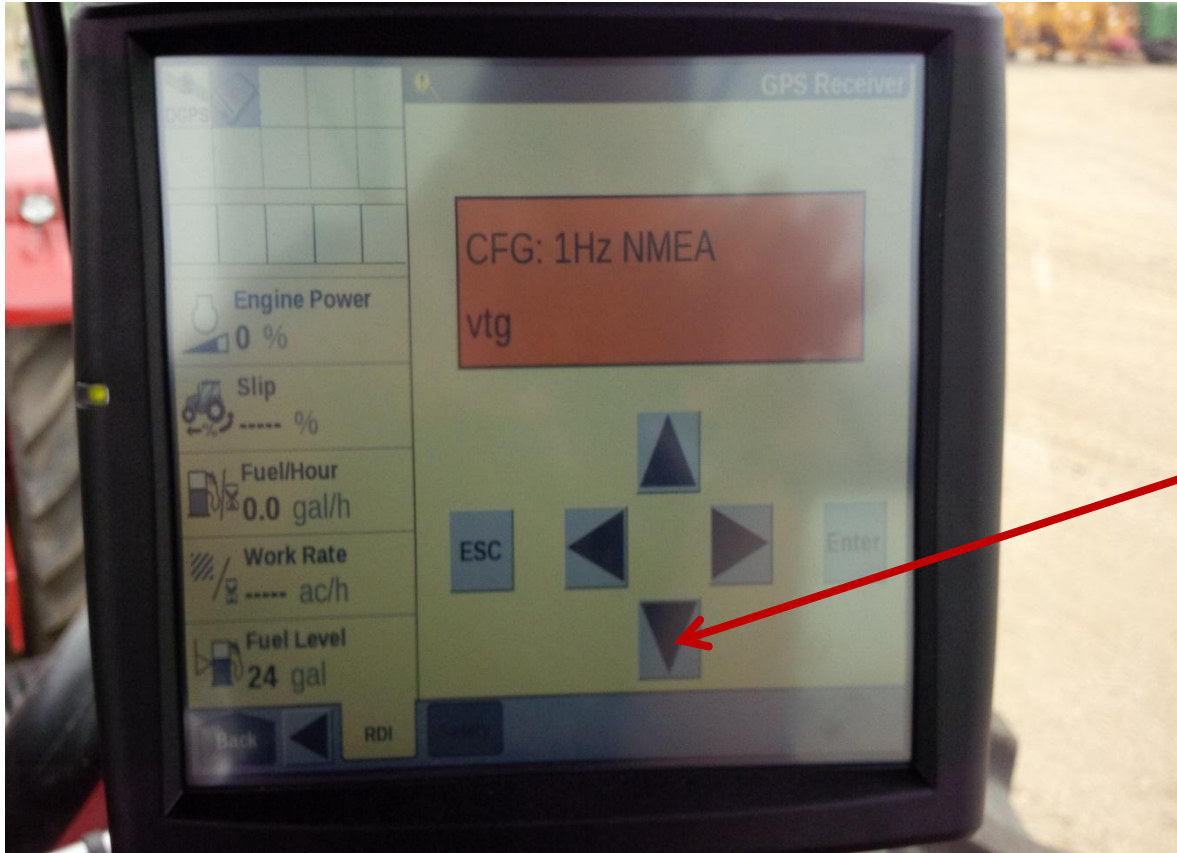
NMEA out ASAP

TSIP out ASAP

Next press the down arrow



**NOTE:** if you find the that the signal in the X30 is intermittent one of these is not setup right.



Press the down arrow to  
continue

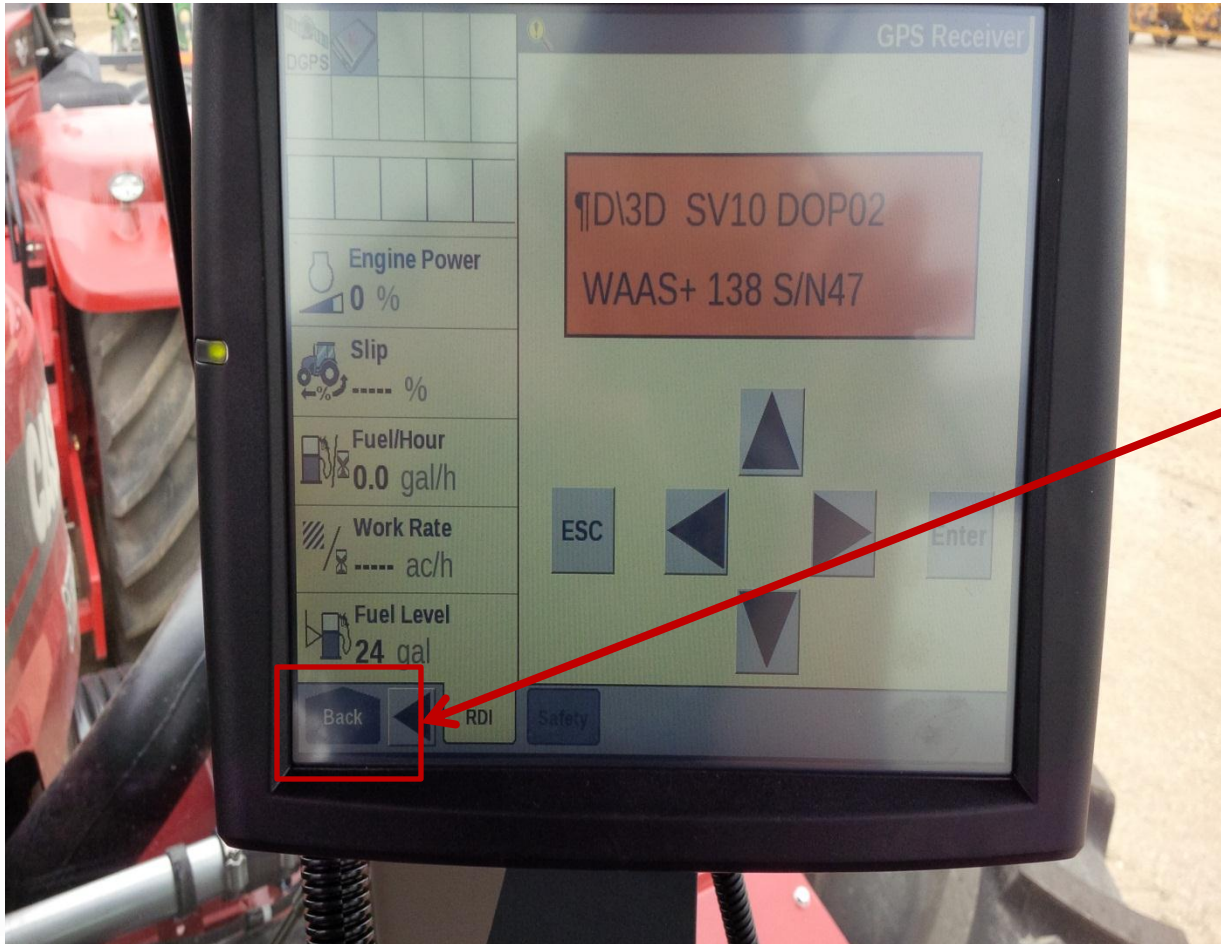


The NMEA Quality should be set to

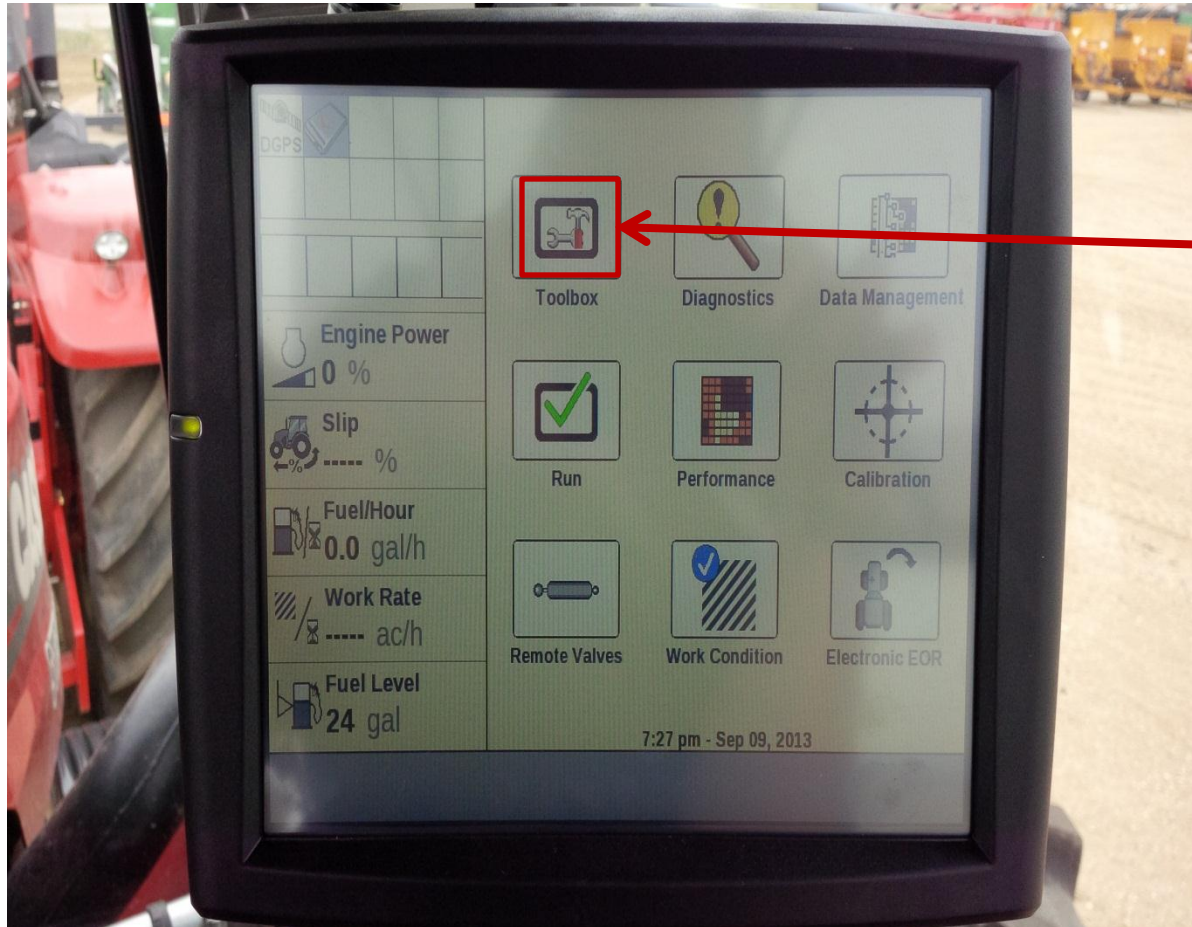
Report True Mode

Then press the down arrow





From here we need to go back to the main screen. We will touch on the Back button on the bottom left corner.



From the main screen we will go into the Toolbox.

Press on the toolbox button



Scroll over to the NAV tab  
along the bottom of the screen.





Once on the NAV tab, touch on the edit button below NMEA output setup



## NMEA Output Setup

NMEA output	ON
Baud Rate	38400
Absolute Speed	Off

Then press the OK button to go back.



Then go and touch the edit button under NMEA Message Setup

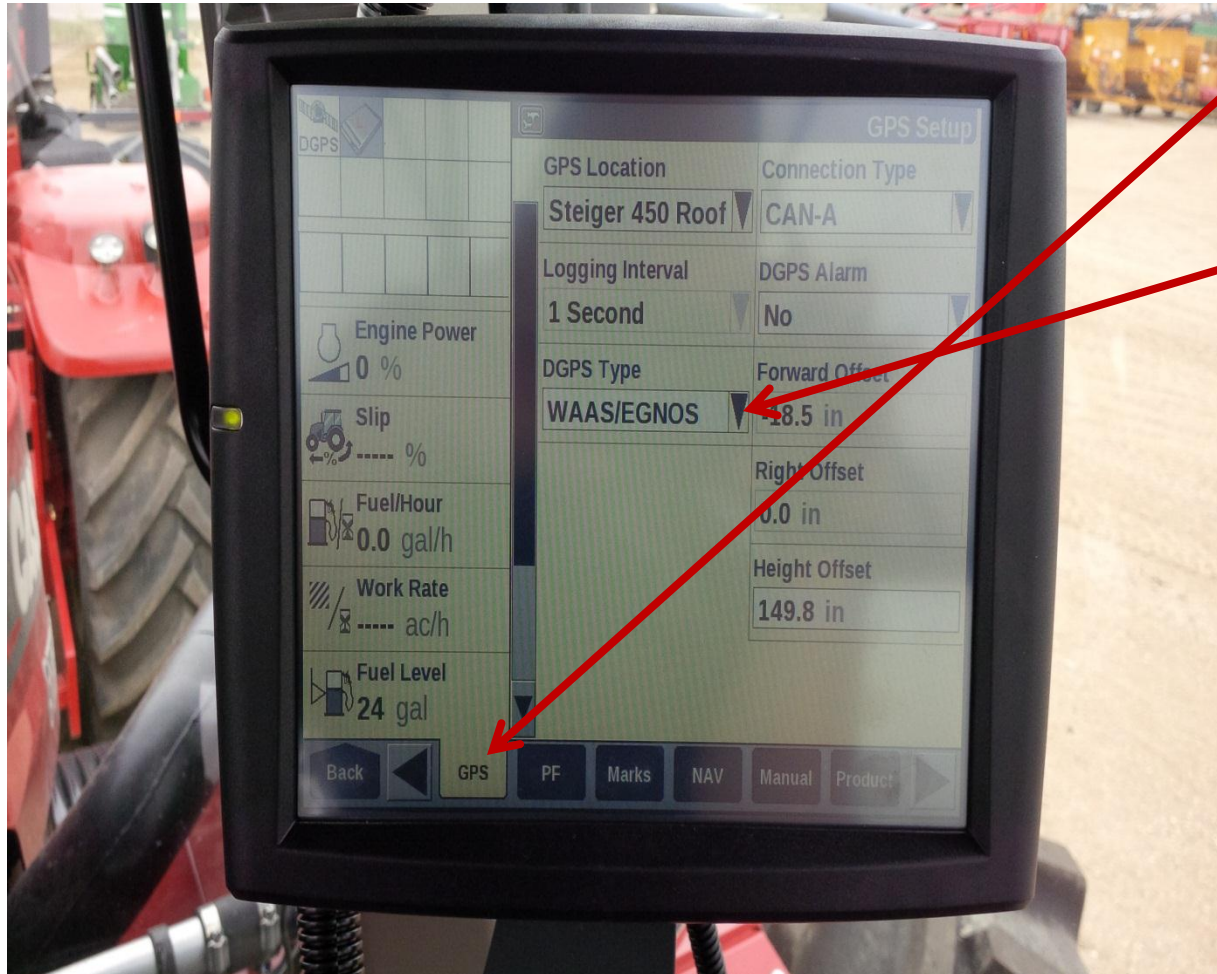




## Output interval

GGA	200ms(5Hz)
GSA	OFF
GST	OFF
RMC	OFF
VTG	200ms(5Hz)
ZDA	10.0s(0.1Hz)

Then press the OK button



Scroll over to the GPS tab on the bottom of the screen.

You will need to go in and set up your DGPS type.

After this you have completed the pro 700 part.

Then you can finish the few simple X30 steps.



Steering: DISENGAGED

GPS Receiver Selection

GPS RECEIVER  
Other

BAUD RATE  
38400

Set to other

Set to match the  
Pro 700

Receiver

Output

Radar

Features

GPS

Serial Ports

Alarms

Flag Points

Area Counters

User

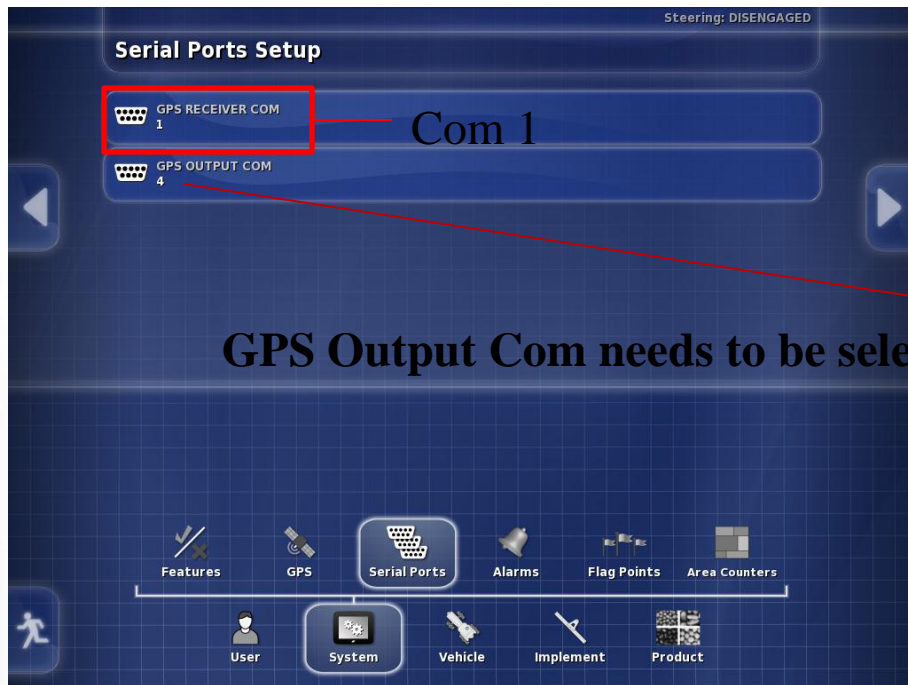
System

Vehicle

Implement

Product





**GPS Output Com needs to be selected different than the Receiver com**

Set to match the way the signal is being brought in.

- Com 1 with the gender changer
- Com 2 with the null modem