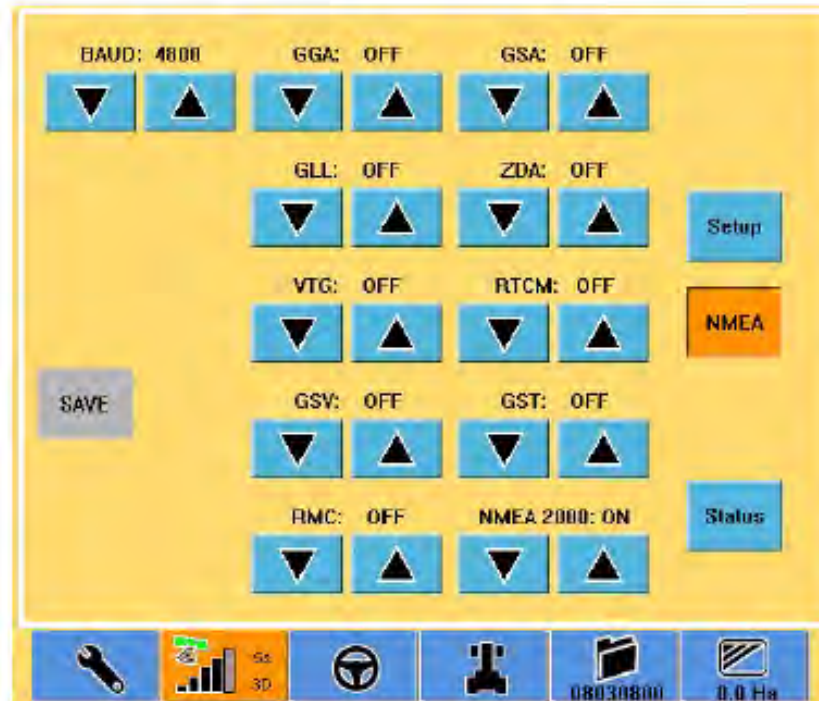# Outback S3 to Topcon X20

• The following pages detail the procedure to get GPS signal from the Outback S2 for the Topcon X20.

• This will be required for Variable rate control, Guidance, and/or sectional control.

Outback S3 NMEA settings

Changing Default Settings

The default communication settings can be changed by touching the NMEA button on the GPS screen and the NMEA Setup screen appears. After making any changes, touch the Save button.
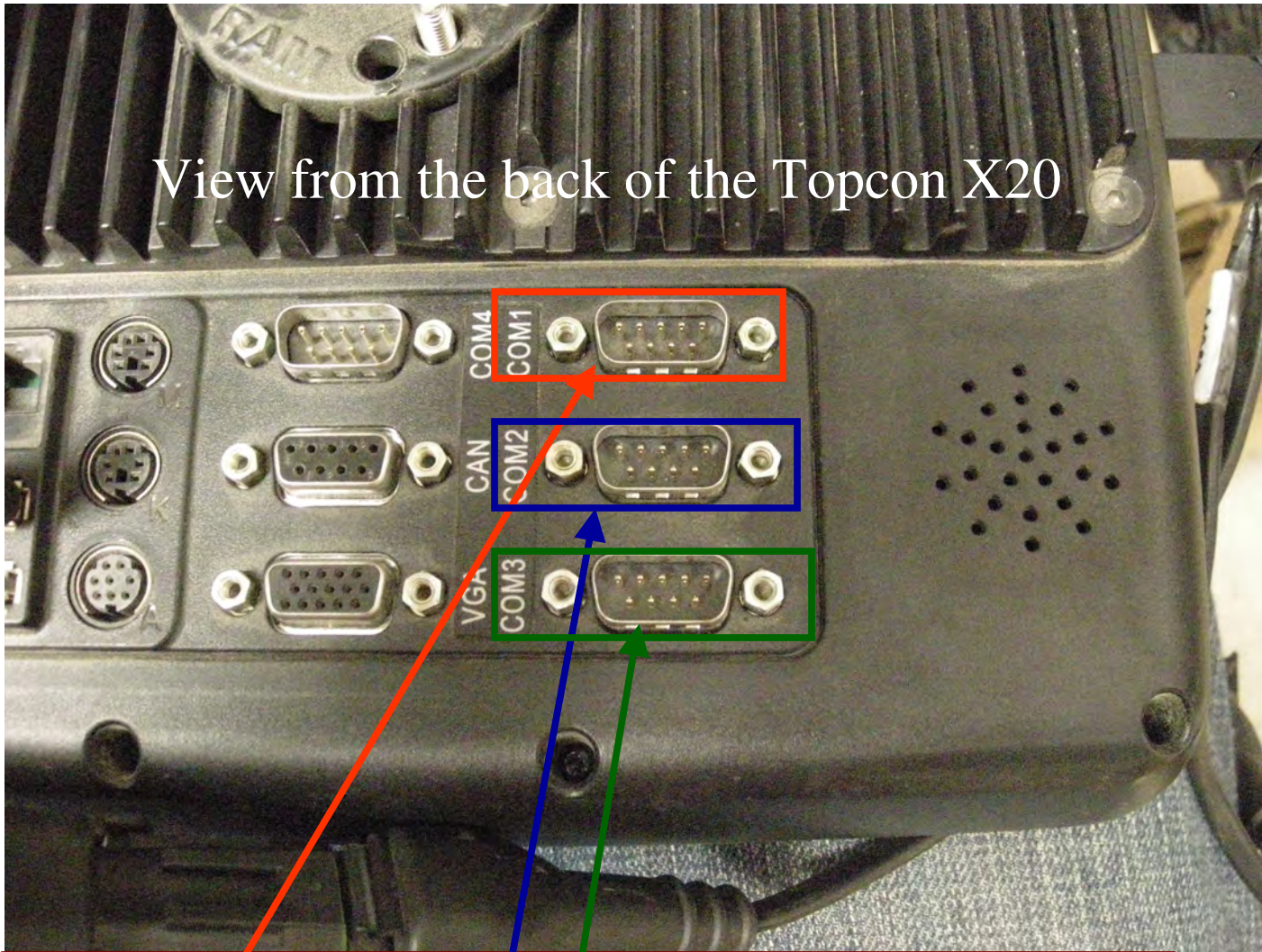

The GGA and VTG must be ON

The Baud rate should be 19200

The following options are available: (Default options are in bold)

- NMEA PORT BAUD: 57600, 19200, 9600, **4800**.

- GGA RATE: OFF,.2 Hz, **1 Hz**, 5 Hz, 10 Hz.

- GLL RATE: **OFF**,.2 Hz, 1 Hz, 5 Hz.
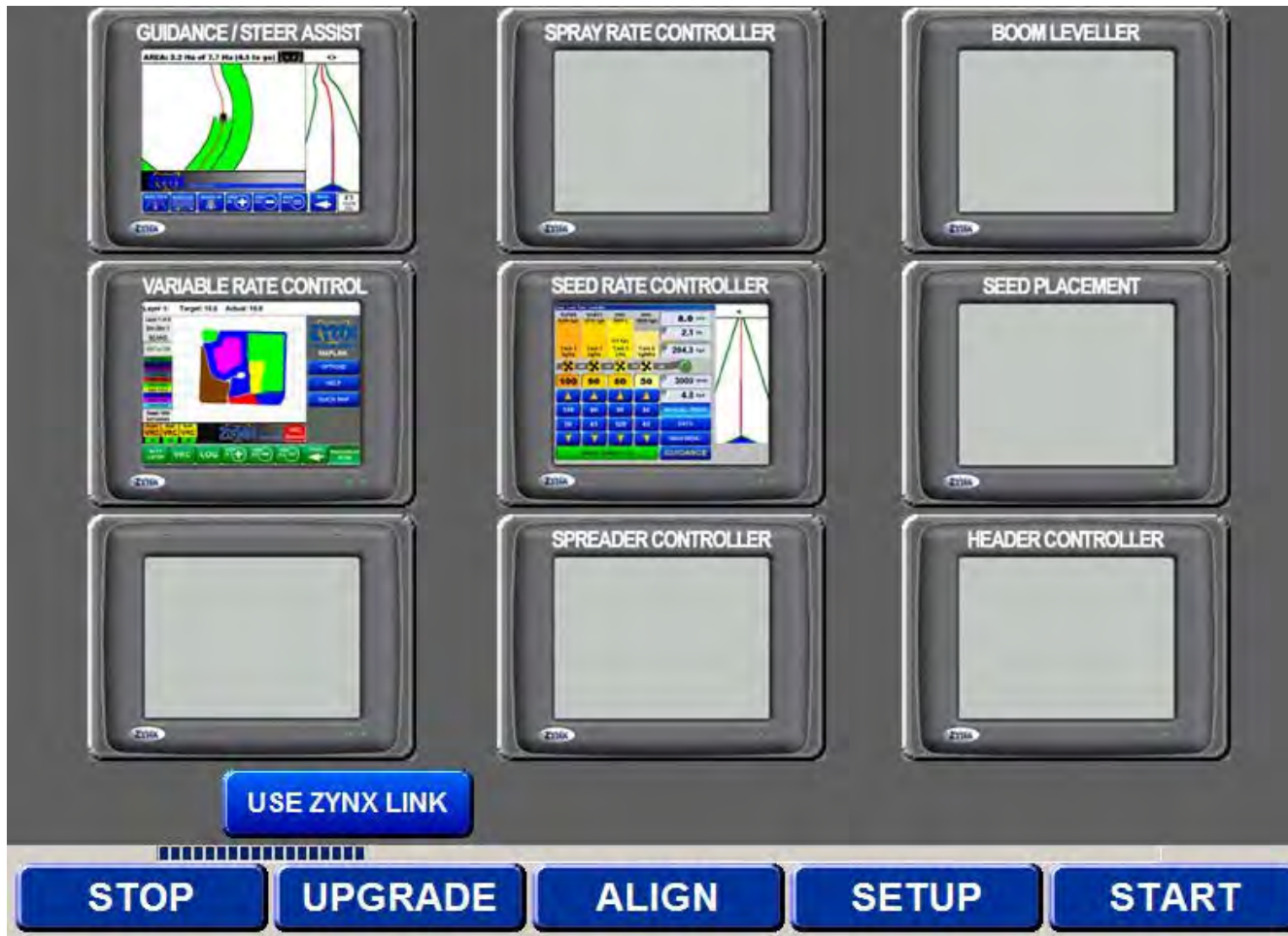
- VTG RATE: OFF,.2 Hz, **1 Hz**, 5 Hz.

View from the back of the Topcon X20

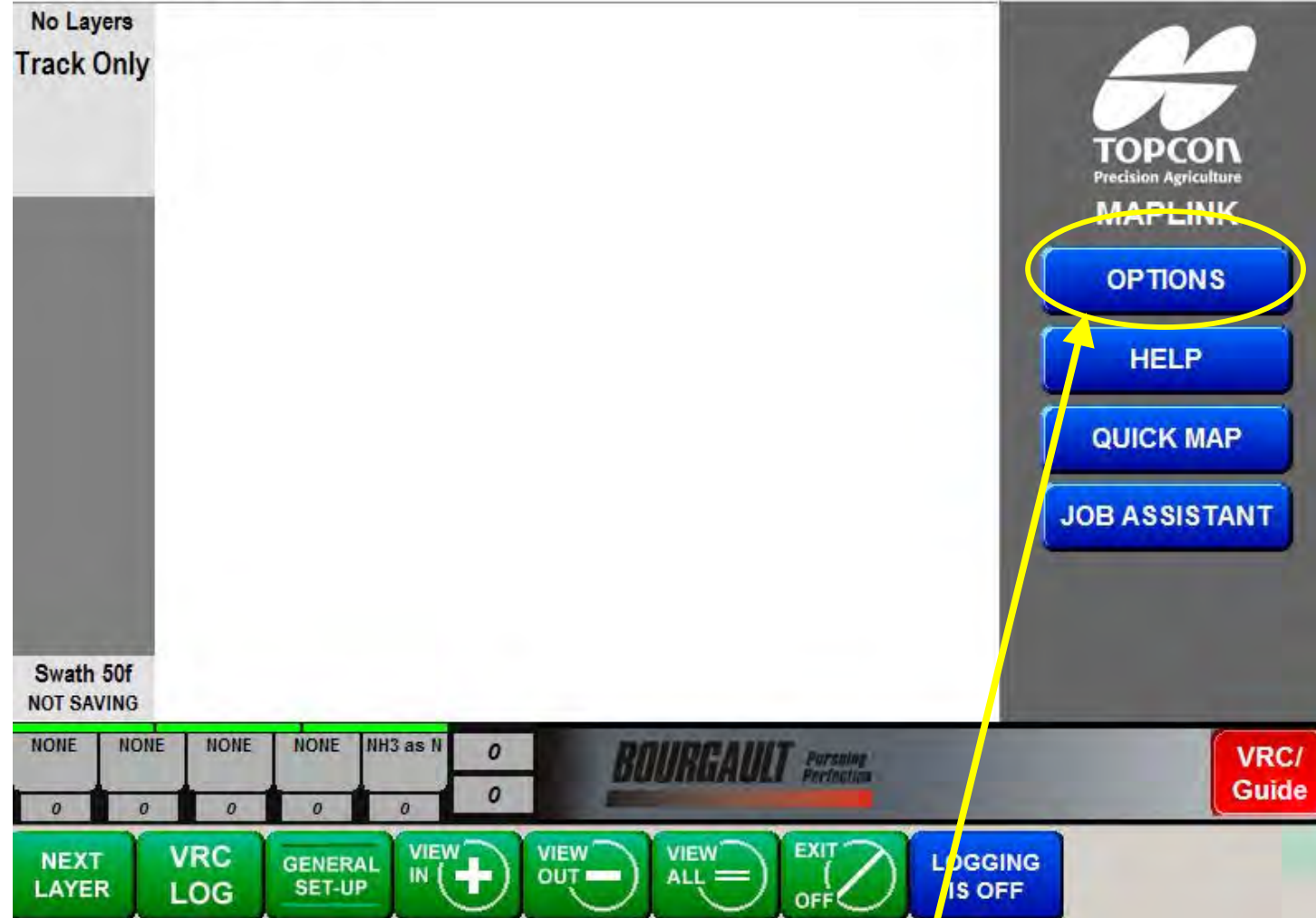**All serial cables must be connected to specific COM ports.**

• **Guidance to COM1 (to Serial port on Outback S3)**

• **Variable Rate Control to COM2 (to Serial port on Outback S3)**

• **Seed Rate Control to COM3 (to SRC interface box)**

Power up the X20 and select Guidance/Steer Assist, Variable Rate Control and Seed Rate Control.

Plotting On Screen Only

No Layers
Track Only

TOPCON
Precision Agriculture

MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

Swath 50f
NOT SAVING

| NONE | NONE | NONE | NONE | NH3 as N | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |

BOURGAULT *Pursuing Perfection*

VRC/
Guide

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN ➕ | VIEW OUT ➖ | VIEW ALL ═ | EXIT OFF ⊘ | LOGGING IS OFF

Select the Options tab in the Maplink program.

Plotting On Screen Only

No Layers
Track Only

General Setup Options

GPS | Config | Folder | VRC | Logging | Plotting | Units | Other

GPS Connection

COM Port
- ○ Simulation
- ○ COM1
- ● COM2
- ○ COM3
- ○ COM4
- ○ COM5
- ○ COM6
- ○ COM7
- ○ COM8

Baud rate
- ○ 4800
- ○ 9600
- ● 19200
- ○ 38400
- ○ 57600
- ○ 115200

Show GPS Info.

Swath 75f
NOT SAVING

Enable Advanced

ABOUT | **Help** | **CLOSE**

NONE | NO

0 | 0 | 0 | 0 | 0 | 0

BOURGAULT *Perfection*

NEXT LAYER | VRC LOG | GENERAL SET-UP | VIEW IN ✚ | VIEW OUT ➖ | VIEW ALL ═ | EXIT OFF | LOGGING IS OFF

VRC/ Guide

Select COM2 for Maplink

Select 19200 for the Baud rate

Plotting On Screen Only

No Layers
Track Only

TOPCON
Precision Agriculture
MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

Swath 50f
NOT SAVING

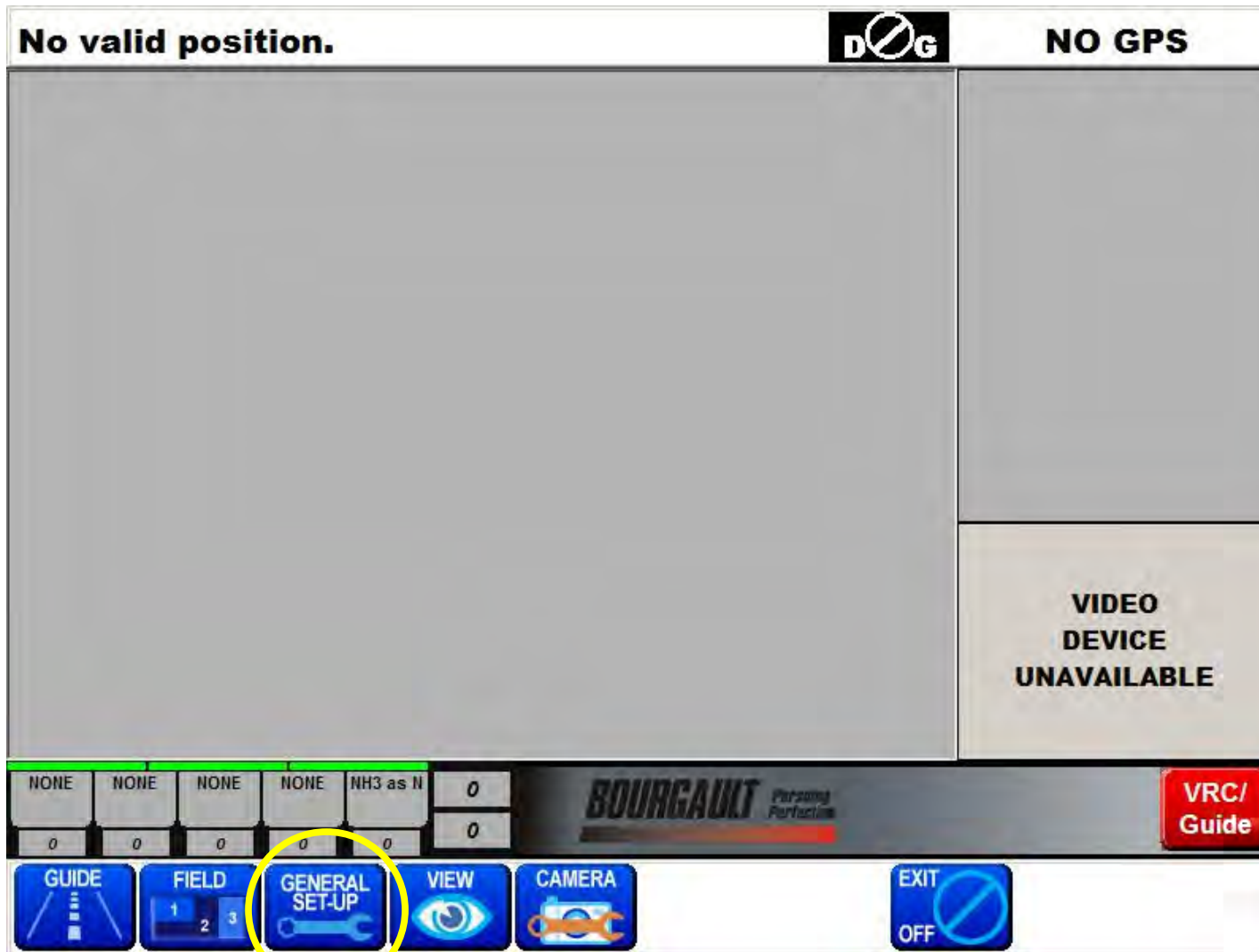| NONE | NONE | NONE | NONE | NH3 as N | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |

BOURGAULT Pursuing Perfection

VRC/ Guide

NEXT LAYER

VRC LOG

GENERAL SET-UP

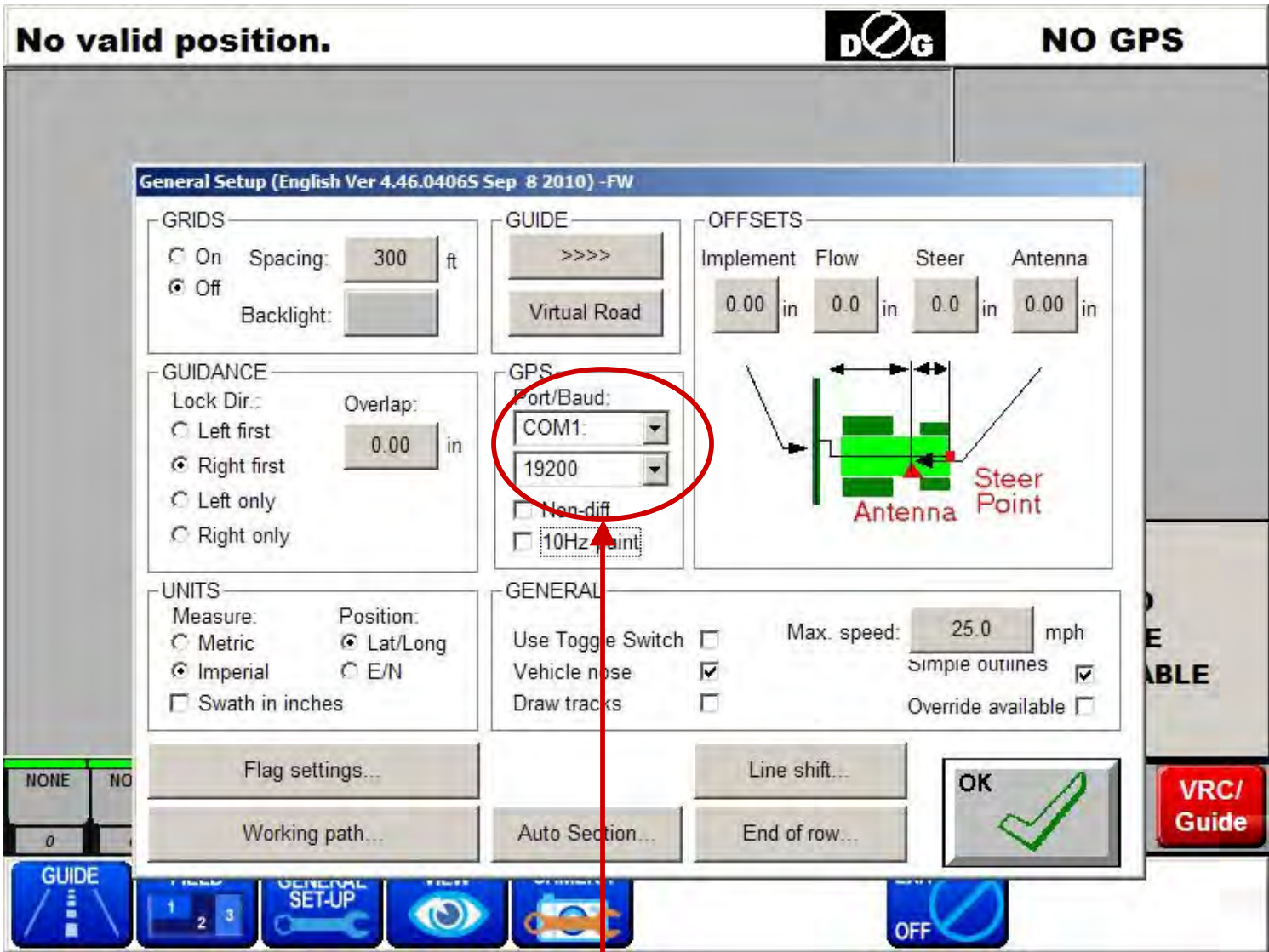VIEW IN +

VIEW OUT −

VIEW ALL =

EXIT OFF

LOGGING IS OFF

Press the VRC/Guide tab top cycle to the Guidance program.

Press the General Set-up tab

Select COM1 and 19200 as the Baud rate for Guidance

Plotting On Screen Only

No Layers
Track Only

TOPCON
Precision Agriculture

MAPLINK

OPTIONS

HELP

QUICK MAP

JOB ASSISTANT

Swath 50f
NOT SAVING

| NONE | NONE | NONE | NONE | NH3 as N | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |

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VRC/ Guide

NEXT LAYER
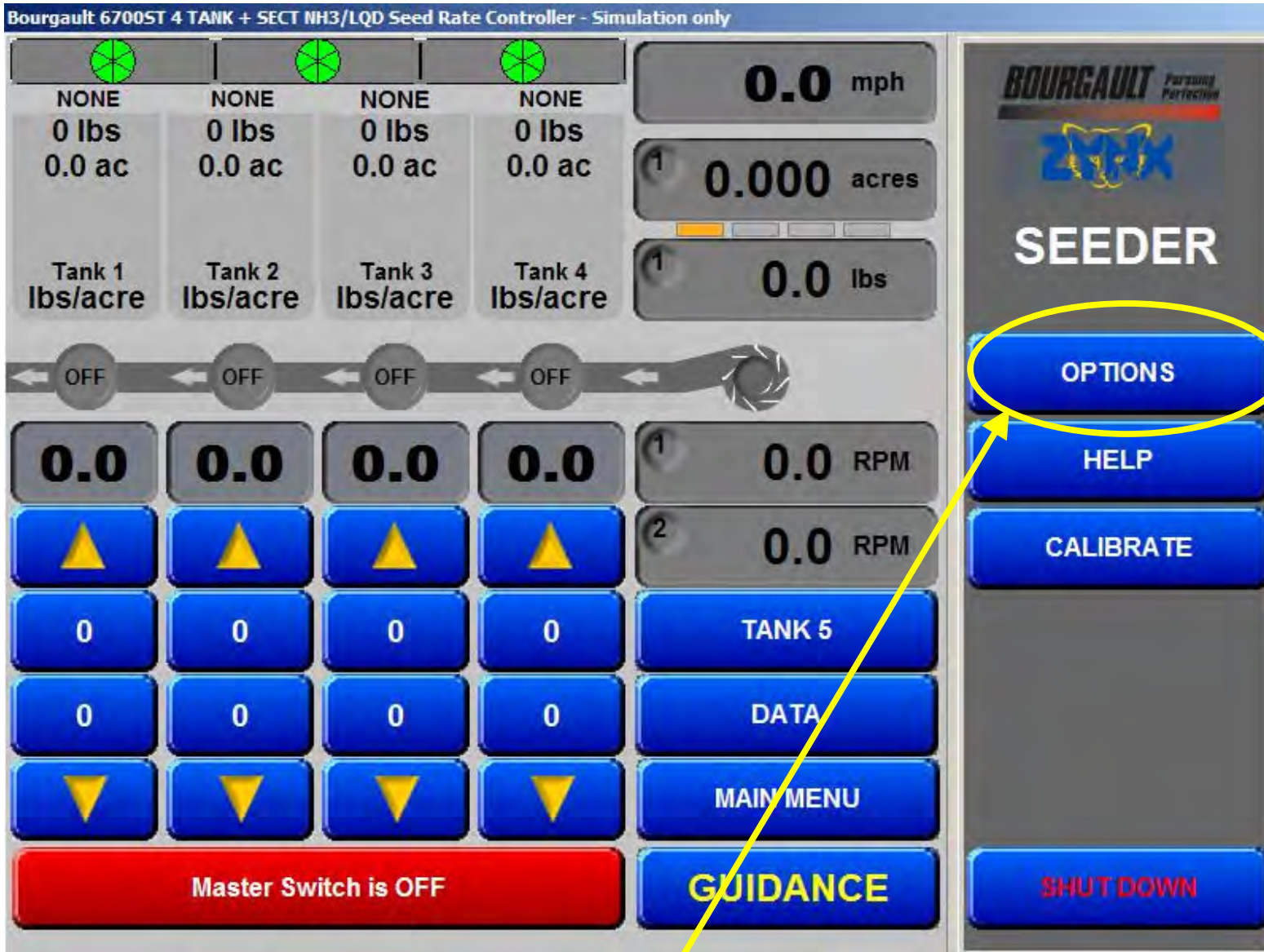
VRC LOG

GENERAL SET-UP

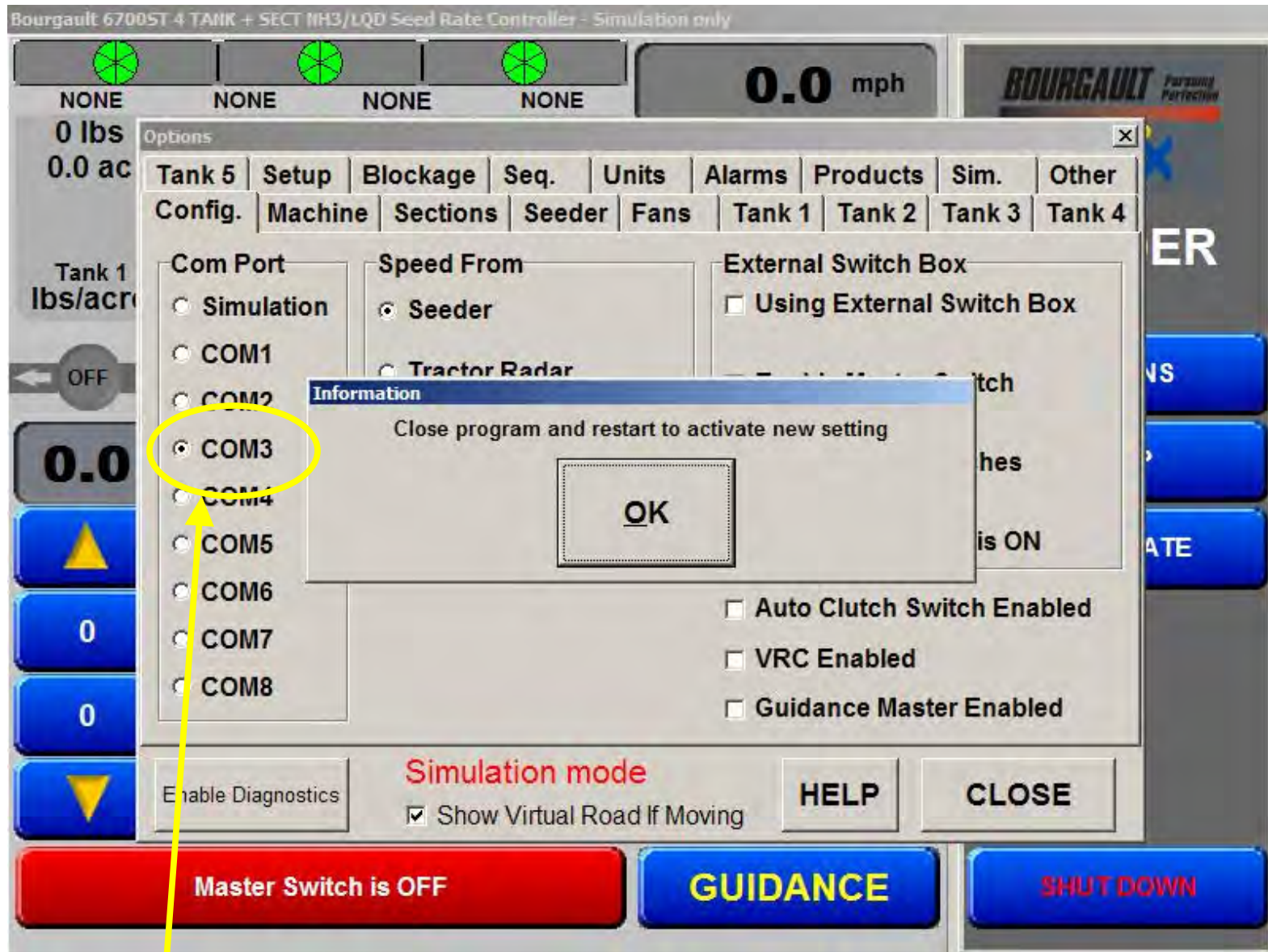VIEW IN ➕

VIEW OUT ➖

VIEW ALL ═

EXIT OFF ⊘

LOGGING IS OFF

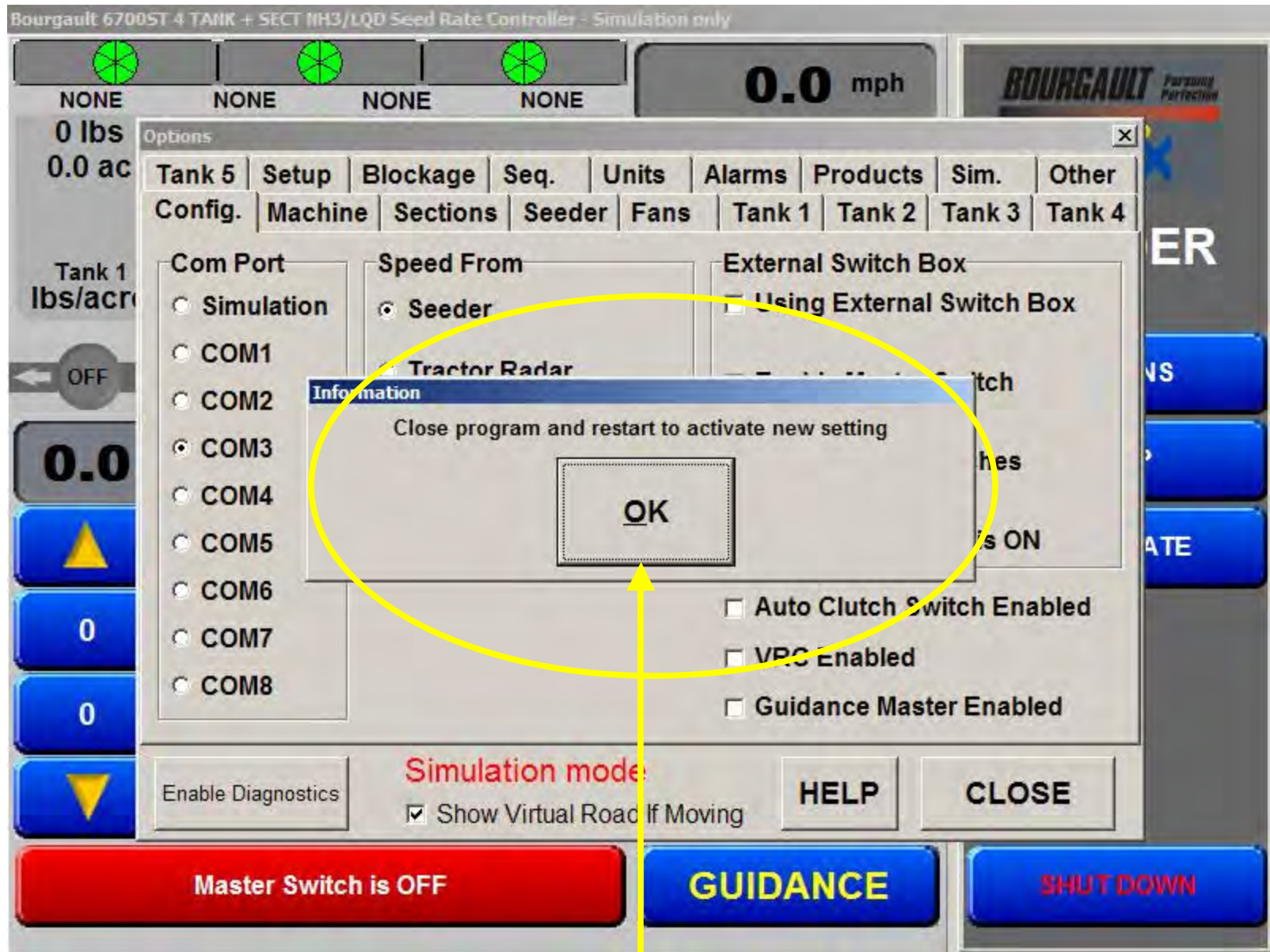**Touch this area to access the Seed Rate Controller program**

Touch the Options tab of the Seeder program

Select COM3 for the Seed Rate Controller

NONE   NONE   NONE   NONE

0.0 mph

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0 lbs
0.0 ac

Options   ☒

| Tank 5 | Setup | Blockage | Seq. | Units | Alarms | Products | Sim. | Other |

| Config. | Machine | Sections | Seeder | Fans | Tank 1 | Tank 2 | Tank 3 | Tank 4 |

ER

Com Port
- ○ Simulation
- ○ COM1
- ○ COM2
- ● COM3
- ○ COM4
- ○ COM5
- ○ COM6
- ○ COM7
- ○ COM8

Speed From
- ● Seeder
- ○ Tractor Radar

External Switch Box
- ☐ Using External Switch Box

Tank 1
lbs/acr

OFF

0.0

Information

Close program and restart to activate new setting

OK

itch

hes

s ON

NS

ATE

☐ Auto Clutch Switch Enabled
☐ VRC Enabled
☐ Guidance Master Enabled

0

0

Enable Diagnostics

Simulation mode
☑ Show Virtual Road If Moving

HELP   **CLOSE**

Master Switch is OFF   **GUIDANCE**   **SHUT DOWN**

The X20 programs must be closed and restarted to retain the COM settings