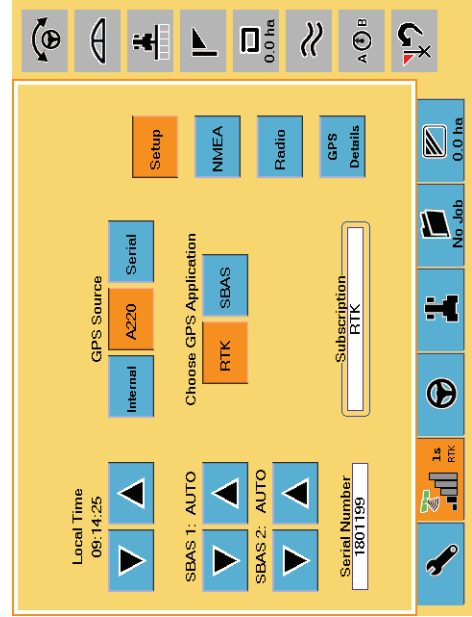
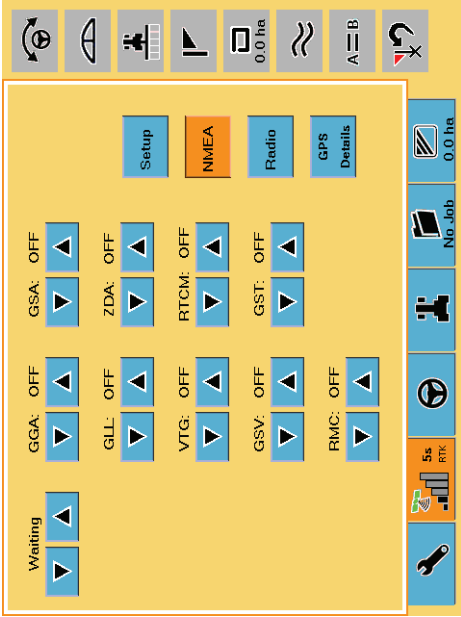


Outback S3 Display



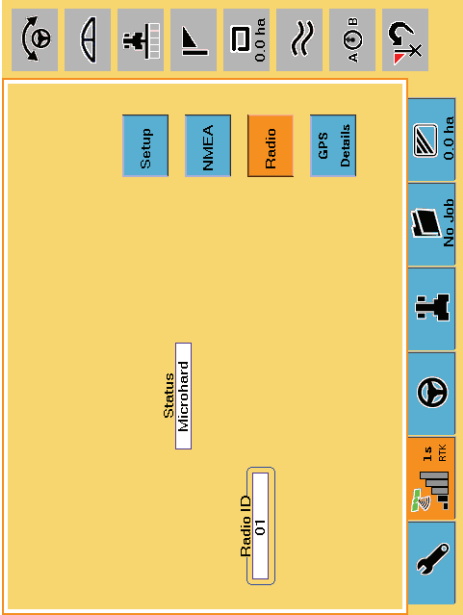
Outback S3 GPS Setup screen.

Available actions: Select the GPS source, select the DGPS application type, enter a subscription code, view your serial number, and select the NMEA, Radio, or GPS details screen.



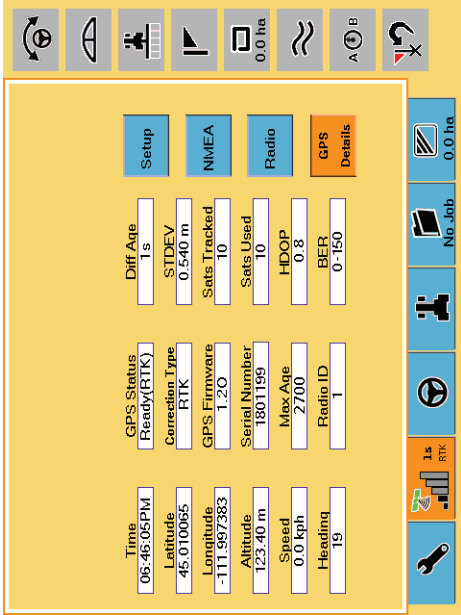
NMEA screen.

Available actions: Configure the NMEA messaging options for communicating with external data sources. See the Outback A220 Smart Antenna User Guide for more information.



Radio screen.

Available actions: Configure the radio options (optional). Please use the Hemisphere GPS Remote Control software application to configure advanced radio settings. See the Outback A220 Smart Antenna User Guide for additional information.



GPS Details screen.

Available actions: View GPS and DGPS signal details, such as position, speed, heading, status, correction type, and satellite information. Also view the firmware and serial number.



Outback A220 Smart Antenna
Quick Reference Guide

Part Number: 875-0244-000



A220 Smart Antenna.

Reading the LEDs

Table 1: A220 Smart Antenna LED Status

LED	Function
	Power Power on
	GPS GPS position calculated (Blinking LED indicates acquiring data)
	DGPS DGPS lock (Blinking LED indicates broadcast or reception of a differential correction from the optional radio)

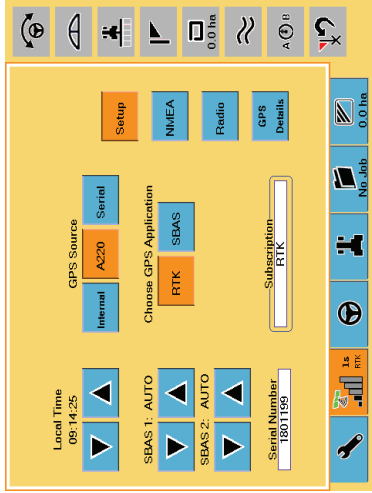
How To: Quick Start

1. Turn the switch on the power cable to the "ON" position.
2. Set GPS options (see **How To: Setup**, below).
3. Enter a subscription code (optional). See **How To: Subscription Code Entry**.
4. Activate OmniSTAR (optional). See **How To: OmniSTAR Activation**.
5. Wait for the green DGPS LED. You're ready to go!

Note: The initial start-up can take anywhere from 5 to 15 minutes, depending on your geographic location. For example, it may take up to 5 minutes to receive a full ionospheric map from SBAS to ensure optimum accuracy.

How To: Setup

1. In the Outback S3 display, select the **GPS Setup** screen.



GPS Setup screen.

2. In the *GPS Source* field, verify A220 is selected.
3. In the *Choose GPS Application* field, select the desired application. Application types include:

- SBAS
- RTK (If purchased). Contact your Outback Guidance dealer to purchase an RTK subscription.

Note: The **Radio** button only appears if RTK is selected as the application type.

- **OmniSTAR** (if purchased). Contact your Outback Guidance dealer to purchase an **OmniSTAR** subscription.

Note: The **OmniSTAR** subscription only enables the A220 Smart Antenna to accept an XP/HP **OmniSTAR** signal. You will need to contact **OmniSTAR** directly to activate your service.

4. Press **GPS Details** to view the GPS settings.
5. Press **NMEA** to configure NMEA message outputs and baud rates. These settings define the configuration settings for outputting data to an external device.
6. Press **Radio** to set radio details (optional - if a radio is installed).

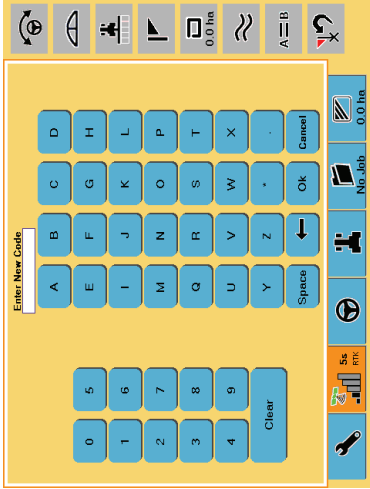
How To: Subscription Code Entry

If upgrading the A220 Smart Antenna to enable RTK or **OmniSTAR**, you must enter a subscription code.

1. Select the *Subscription* field on the **GPS Setup** screen.

Note: Please see your Outback Guidance dealer to purchase a subscription code. You will still need to contact **OmniSTAR** directly to activate the service.

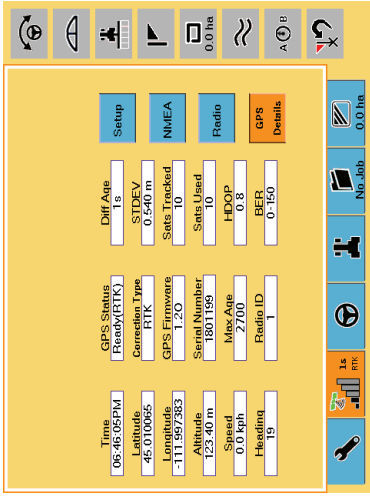
2. Enter the subscription code and press OK.



Subscription Code window.

How To: OmniSTAR Activation

1. Verify that the A220 Smart Antenna is connected to the Outback S3 and that all systems are powered on.
2. Enter the Outback Guidance subscription code if **OmniSTAR** was not purchased directly from the factory.
3. Make sure the vehicle is stationary and the antenna has a clear view of the sky.
4. Monitor the number of satellites tracked in the *Sats Tracked* field on the **GPS Details** screen to ensure a proper GPS signal.



GPS Details screen.

5. Locate the *Serial Number* field on the **GPS Details** screen.
6. Contact **OmniSTAR** (www.omnistar.com) to activate service for your region. They will ask you for the serial number from step 5, above.

Note: It may take some time for the activation to take effect.

7. Monitor the value in the *STDEV* field to confirm a converged signal. This may take up to 45 minutes the first time you activate **OmniSTAR**.

Note: You can operate the vehicle while waiting for a converged signal, but will experience decreased accuracy.

Note: If the A220 Smart Antenna is turned on in the same location it was turned off with a converged **OmniSTAR** signal, the time required to reach maximum accuracy is shortened.

8. When the system converges on an **OmniSTAR** signal, you're ready to go!