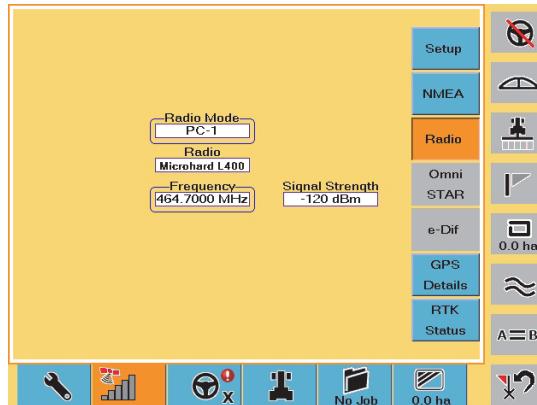
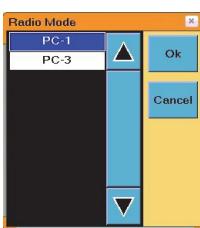


2. Touch the **Radio** button to display the Radio screen.



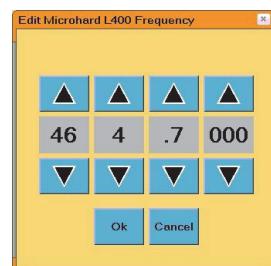
3. Touch the **Radio Mode** field.

4. In the Radio Mode window select the desired mode and touch **Ok**.



5. On the Radio screen touch the **Frequency** field.

6. In the Edit Frequency window touch the Up Arrow and Down Arrow buttons to set each segment of the frequency value and touch **Ok**.



Activating L-Band Service

1. Make sure the vehicle is stationary and the antenna has a clear view of the sky.
2. On the Outback S3 touch the **GPS** tab then touch the **GPS Details** button to display the GPS Details screen.



3. Using the GPS Details screen perform the following:

- a. Monitor the number of satellites tracked in the Sats Tracked field to ensure a proper GPS signal.
- b. Locate the Serial Number field and contact your L-band service provider to activate service for your region.

Typically it takes up to 15 minutes for the activation to take effect; however, some activations may take longer.

- c. Monitor the value in the STDEV field to confirm a converged signal. Contact your L-band service provider to determine how long this may take.

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

If you turned on the A320 in the same location you turned it off with a converged L-band signal, the time required to reach maximum accuracy is reduced.



Outback A320™ Quick Reference Guide

Part Number: 875-0292-000 Rev A1



Reading the LEDs

LED	Function
	Power (red) = Power on
	GPS (yellow) = GPS lock solid LED = GPS lock blinking LED = acquiring data
	DGPS (green) = DGPS position solid LED = diff position achieved blinking LED = receiving diff corrections

Quick Start

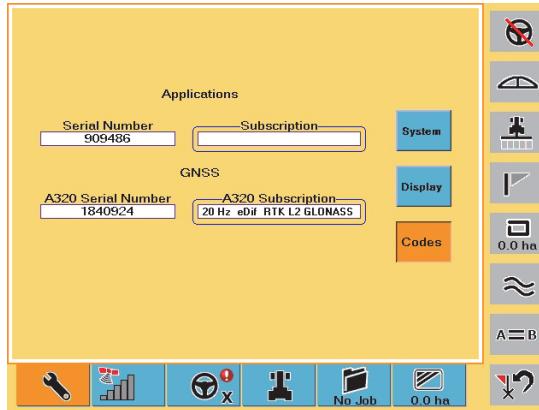
1. Verify the A320 and all connected systems are powered on.
2. Enter a receiver authorization code (optional). See "Adding Receiver Authorizations."
3. Configure GPS options.
4. Activate L-band service (optional). See "Activating L-Band Service."
5. Wait for the A320 to converge on a differential signal (green LED indicates DGPS) and you are ready to go.

Initial startup may take from 5 to 15 minutes, depending on your geographic location.

Adding Receiver Authorizations

The A320 allows you to add additional authorizations, such as RTK or GLONASS, after purchase.

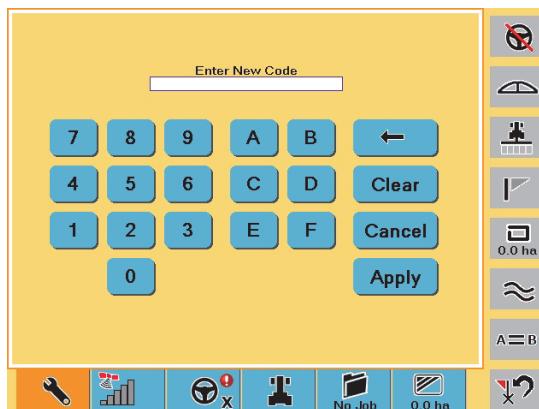
1. On the Outback S3 touch the **Setup** tab then touch the **Codes** button to display the Codes screen.



2. Touch the **A320 Subscription** field to display the External GNSS Features List window.



3. Touch the **Enter Code** button to display the Enter Code screen.



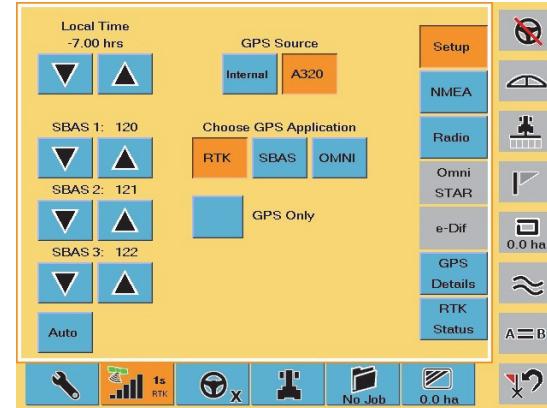
4. Enter your authorization code and touch the **Apply** button.

Configuring GPS Options

You can use the S3 console to configure GPS options.

Setting DGPS Application Type

1. On the Outback S3 touch the **GPS** tab to display the GPS Setup screen.



2. In the *GPS Source* area verify A320 is selected (button is orange).

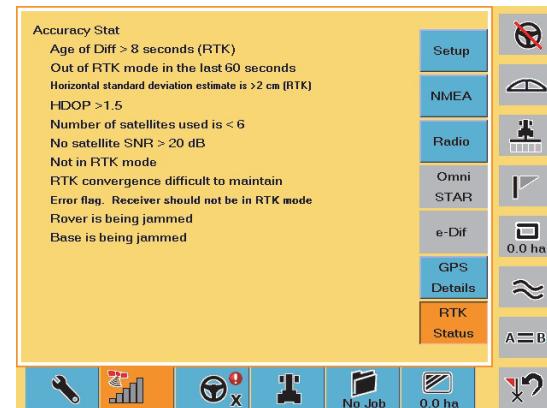


3. In the *Choose GPS Application* area, touch the desired DGPS application button. Application types include SBAS, RTK, and L-band.



Note: L-band functionality requires a subscription; contact your L-band service provider for more information.

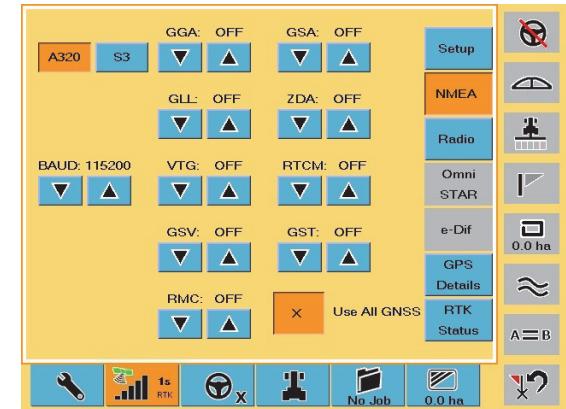
4. If you select RTK as the application touch the **RTK Status** button to display the RTK Status screen.



Note: If you see an alert on this screen your RTK performance is at risk and you should investigate the reason as described on this screen.

Setting Baud Rate and NMEA Message Output

1. On the Outback S3 touch the **GPS** tab then touch the **NMEA** button to display the NMEA screen.



If necessary touch the **A320** button in the upper left of the screen to display NMEA settings for the A320.

2. Touch the **BAUD** Up Arrow or Down Arrow button to cycle through the available baud rates.



3. For each message output rate you want to set touch the desired message Up Arrow or Down Arrow button to cycle through the available rates (GLL message arrows shown at right).



Setting Radio Mode and Frequency

*Must have optional radio installed

Note: Base and rover configurations must match.

For 900 MHz radios you set the channel.

For 400 MHz radios you set the frequency.

1. On the Outback S3 touch the **GPS** tab to display the GPS Setup screen. Verify "A320" is selected in the *GPS Source* area and "RTK" is selected in the *Choose GPS Application* area.

