



Installing Outback® S Software Upgrades

Software upgrades are periodically released to enhance, or extend, the performance of your Outback® S. Each software component is released with a version number assigned, for example 2.0. Newer releases are higher numbers and are compatible to older releases. If you are uncertain which version is installed on your unit, go to DIAGNOSTICS in the Outback® S menu. You will find an APPLICATION version and a GPS version. The GPS version effects the way that differential corrections are generated on the receiver. The Application version effects all other functionality of the Outback® S.

Field installation of new Application software, or GPS software, may be performed either from a PC or from an Outback® 360.

Installing Application software with a PC

You'll need:

- Outback® CANLOAD.EXE OUTBACKS???.H86.
- Outback® COM Port Connectivity Kit which contains a standard 9 pin serial cable.
- 12 VDC power supply for the Outback® S if not performing the update in the vehicle.

Perform these steps:

- 1) Remove the antenna cable from the S.
- 2) Connect the PC to the S using the 9 pin serial cable.
- 3) Turn S power on. **DO NOT REMOVE POWER TO UNIT UNTIL AFTER APPLICATION IS COMPLETE.**
- 4) Open CANLOAD.EXE.
- 5) Choose proper COM port where the serial cable is connected. (Usually COM port 1)
- 6) Choose "BIOS" in Program Update Box. Then choose SELECT FILE and open **obsbios.h86**. Then click TRANSFER. (Lights will flash during this process and then the S will reboot. The new S Bios has been installed.)
- 7) Choose "APPLICATION" in Program Update Box. Then choose SELECT FILE and open **out-backs???.h86**. Then click TRANSFER. (Lights will flash during this process then the S will reboot. The new Application version has now been installed.)

Installing Application software with the Outback® 360

You'll need:

- Outback® 360 with Memory Card with Outback Application Software loaded.

Perform these steps:

- 1) Remove the antenna cable from the S.
- 2) Install Power/CAN cables to S and 360 (See owner's manual).
- 3) Install Run/Hold cable to the 360. Then connect the serial connector on that cable to the S. (See owner's manual).
- 4) Turn power on the S and 360. **DO NOT REMOVE POWER TO UNIT UNTIL AFTER APPLICATION IS COMPLETE.**
- 5) On the 360 press MENU then SETUP> SETTINGS>MORE>MORE>MORE.
Then press "LOAD OBK-S BIOS VIA SERIAL PORT".
Then press "LOAD THE BIOS FIRMWARE".
Then press any key to confirm you have the serial cable connected above. (Lights will flash during this process and then the S will reboot. The new S Bios has been installed.)
- 6) Turn 360 power OFF, then while holding the UP and DOWN arrow keys, turn the 360 power ON again.
- 7) Select "LOAD APPLICATION PGM TO OUTBACK S". (Lights will flash during this process and then the S will reboot. The new Application version has now been installed.)





Installing GPS software with a PC

You'll need:

- RIGHTARM.EXE,
GPSAppSX2_WAAS_68G.BIN
GPSAppSX2_eDiff_26G.BIN
- Outback® COM Port Connectivity Kit which contains a standard 9 pin serial cable.
- 12 VDC power supply for the Outback® S if not performing the update in the vehicle.

Perform these steps:

- 1) Connect the PC to the S using the 9 pin serial cable.
- 2) Make sure S is turned **OFF**. Leave the S turned **OFF** until instructed to turn on!
- 3) Open RIGHTARM.EXE.
- 4) Select the CONNECT Icon. 
- 5) Choose proper COM port where the serial cable is connected. (Usually COM port 1)
- 6) Set BAUD rate to 19200 and click OK button.
- 7) Select the PROGRAM Icon. 
- 8) Select "Application" for Program Type if replacing or updating eDiff. Select "Application 2" for Program Type if replacing or updating WAAS.
- 9) Place a check mark in the boxes next to ACTIVATE LOADER and START APPLICATION AFTER PROGRAMMING.
- 10) Press SELECT FILE and select:
GPSAppSX2_Waas_68G.bin file for WAAS
GPSAppSX2_eDiff_26G.bin file for eDiff
Press OPEN.
- 11) Select the ERASE AND PROGRAM button.
- 12) Now turn the S power ON. **DO NOT REMOVE POWER TO UNIT UNTIL APPLICATION IS COMPLETE.** A status window will display a progress bar. When finished, the message "APPLICATION STARTED" will display.



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Installing GPS software with the Outback® 360

Not Available For S2

You'll need:

- Outback® 360 version 1.3 or higher.

Perform these steps:

- 1) Remove the antenna cable from the S.
- 2) Install Power/CAN cables to S and 360 (See owner's manual).
- 3) Install Run/Hold cable to the 360. Then connect the serial connector on that cable to the S. (See owner's manual).
- 4) Turn power on the S and 360. **DO NOT REMOVE POWER TO UNIT UNTIL AFTER APPLICATION IS COMPLETE.**
- 5) On the 360 press MENU then SETUP>SETTINGS>MORE>MORE>MORE.
- 6) Select Load SLX APP via serial port
- 7) Select Application you are installing or upgrading.
GPSARCHWAAS__ for WAAS
GPSARCHOMNI__ for Omnistar
- 8) Press Load, Outback-360 screen will display CONNECT SERIAL CABLE AND PRESS ANY KEY TO CONTINUE. Confirm that serial cable is secure and press any key on the Outback-360 console.
- 9) Outback-360 screen will display SELECT CURRENT APPLICATION TO BE REPLACED.
If you are updating WAAS choose WAAS
If you are updating Omnistar choose L-BAND
- 10) When the GPS software is ready to load you will be instructed on the Outback-360 display to TURN OUTBACK-S POWER OFF AND BACK ON.
- 11) Outback-360 will display the loadingstatus bar at the bottom so the screen and display this message.
LOADING SLX APPLICATION
DO NOT REMOVE POWER OR
DISCONNECT UNTIL DONE
- 12) When software transfer is complete, the Outback-360 will display TURN-S POWER SWITCH OFF AND BACK ON. (PRESS ANY KEY) will take you back to the menu screen.