Installation

⚠️ **Warning:** Read and understand the AutoMate Installation Kit instructions and all of the safety information before installing, operating, or performing maintenance or service on the Outback AutoMate. If you have a question or need assistance, contact your local dealer or call Hemisphere GPS at 1-800-247-3808.

Mounting the AutoMate

Mount the AutoMate controller using the elongated holes in the enclosure flanges and the provided support screws. Tighten the support screws securely to prevent the AutoMate from jarring or bouncing.

Be sure to mount the AutoMate console within easy reach of the driver. Also consider how cables will be routed to connect to AutoMate's back panel when choosing a location.

Powering the Console

⚠️ **Warning: To** avoid burns or electric shock injury when installing or removing the Outback AutoMate, do not touch parts of the tractor that are heated or electrically energized.

The AutoMate controller is typically powered through the rate controller. The AutoMate will power up when you turn the rate controller on.

Connect the 4-pin power connector from the rate controller interface cable to the 4-pin port on the back of AutoMate.

Note: The interface cables provided for some rate controllers will not contain an integrated power cable for the AutoMate console. For these applications, a separate power cable will be supplied to directly connect to a 12 VDC power source. See the rate controller specific interface installation guide for details.

Connecting the GPS Receiver

AutoMate must receive a GPS signal from a GPS receiver in order to calculate where the sprayer or planter is located. Any GPS receiver that supplies the standard NMEA GPS strings at a minimum of 4 Hz can be used.

Connect the supplied GPS Interface Cable (part number 750-3002) to the round connector labeled DGPS on the back of AutoMate. Connect the 9-pin connector on the other end of the GPS Interface Cable (part number 750-3002) to the matching connector on the GPS receiver.

Connecting the Interface Cable

The AutoMate interfaces to the boom valves through the rate controller specific interface kit. The rate controller interface connects in parallel with the rate controller harness. See the rate controller specific interface guide for details. Connect the large round connector from the rate controller interface cable to the large circular connector on the back of the AutoMate marked "Control."

The AutoMate also interfaces with the Tru-Count air and electric planter controllers through the equipment specific interface kit. Connect one end of the interface cable directly to the electric clutches or the six pin connectors of any air system. The 12 pin round connector will be connected to the power cable, which in turn is connected to the AutoMate controller. See the planter controller specific user guide for details.

Master Switch

The rate controller's master switch is typically used to enable or disable AutoMate's application activity. The master switch must be turned on in order for AutoMate to automatically control section ON/OFF status. Certain rate controller models do not allow for direct connection of the master switch to the AutoMate. For these rate controllers, the AutoMate can be setup to provide a soft switch to enable or disable automatic section control. The whisker switch provided with planter interface kits is connected to the interface cable, which will act as the master switch when the planter is raised and lowered.

Starting Up for the First Time

Before beginning the first operation, the AutoMate needs to be installed and configured for the sprayer or planter. Check that the following steps have been completed to properly set up AutoMate. This ensures that AutoMate is configured properly for successful operation.

1. Set up your GPS receiver system to output a GPS signal to AutoMate.
2. Set up the rate controller.
3. Select the operation mode.
4. Select the distance units.
5. Configure the section widths.
6. Orient the sections relative to the GPS antenna.
7. Configure the section locations.
8. Select the sections to be controlled.
9. Set the look ahead times.
10. Set the override time.
11. Select the percentage of coverage.
12. Test cycle the sections.

Outback AutoMate

Quick Reference Guide

Part Number: 875-0191-000 Rev. B1

The AutoMate Display

What the buttons do

→ Right Arrow button - scroll through menus

↓ Down Arrow button - navigate down or forward

↑ Up Arrow button - navigate up or back

← ENTER button - makes a selection

↓ + ↑ (Together) - Return to **Home** screen

Menu Map

Home

Manual Control

[A] [A] [A]

Use → ← To Toggle

Hold 1s

Home Screen

[A] [A] [A]

Ovrride ↑ ← GPS OK

Start New Job

Start New Job

No

Field Boundaries

Create Fld Bndry

Create Fld Bndry

Press ↓ To Enter

Field Boundary Offset

Fld Bndry Offset

Left ←

Start Field Boundary

Start Fld Bndry

FBL Press ← Start

End Field Boundary

End Fld Bndry

Cancel or End ←

No-Plant Boundaries

Create No Plant Zn

Create No Plnt Zn

#01 Press ↓

No Plant Zone Offset

No Plant Offset

Left ←

Start No Plant Zone

Start No Plnt X

NSL Press ← Start

End No Plant Zone

Drive No Plnt X

Cancel or End ←

Section Config

Section Config

Sections Config

Press ↓ To Enter

# of Sections

Of Sections

3

Sctn 1 Width

Sctn 1 Width

150"

Sctn 2 Width

Sctn 2 Width

150"

Sctn 1 Width

Sctn 3 Width

150"

L/R Offset

L/R From Antenna

20" Lft

Fore/Aft Offset

F/A From Antenna

50" Aft

Auto Section Locate

AutoLocate Sctns

No   yes

Sctn X Lft/Rt

Sctn X Lft/Rt

50" Aft

Sctn X Fore/Aft

Sctn X Fore/Aft

50" Aft

Controller Config

Controller Config

Controller Config

Press ↓ To Enter

Control All Sections

Cntrl All Sctns

No

Control Section 1

Cntrl Section 1

Yes

Control Section 2

Cntrl Section 2

Yes

Control Section 3

Cntrl Section 3

Yes

On Look Ahead

On Look Ahead

2.1 Sec

Off Look Ahead

Off Look Ahead

1.8 Sec

Override Time

Override Time

5 Sec

Percent Coverage

Percent Coverage

100 %

AutoMate Test

Test Cycle Sections

Press ←

Yes

Language

System Config

System Configuration

System Config

Press ↓ To Enter

LCD Back Light

LCD Back Light

On

LCD Contrast Setting

LCD Contrast

44%

Key Beep Setting

Key Beep

On

Distance Unit Setting

Distance Units

inches

Baud Rates A..D

Port A Baud Rate

19200 bps

Console Port

Console Port

C

Master Switch

External

Receiver Remote

Receiver Remote

Press ←

Lockout Changes

Lockout Settings

Changes Off

Language Settings

Language

English

Mode Selection

Mode

Sprayer

Home Screen Section Status Symbols

-    AutoMate off or not started yet

A   AutoMate on or apply

N   No Plant zone (not applying)

X   In Previously Applied Area

O   Override On Or Switch Out Of Position

Outback AutoMate
Menu Structure

April 6, 2009