



## Envizio Plus Addendum

Congratulations on your purchase of the Envizio Plus guidance system! This system is the ultimate guidance solution featuring numerous guidance patterns, LED combined with on-screen guidance, data logging, and much more. This addendum will show updates and changes that have been made to the Envizio Plus software but have not yet been incorporated into the manual. For all other Envizio Plus operation and setup features, refer to the supplied manual.

### New Job Screen Features and Areas

**Swath Number or Mode**  
**Speed, Course Over Ground (COG), or Rates (if using a Raven console. (touch to toggle)**  
**Coverage Area**

**Swath: 1**  
**MPH: 5.8**  
**Applied: 0.1**

**Distance To Line: 0.0**

**A-B Line**

Green indicates that the booms are on and coverage is being logged

Switch to this guidance pattern

**Swath: LAST**  
**COG: 182°**  
**Applied: 1.5**

**Distance To Line: 2.1R**








**Guidance Line**

**Swath: 1**  
**Rate 1: Rt 5.5 Ra 5.7**  
**Applied: 0.1**

**Distance To Line: 0.0**

Touch to enable the AccuBoom override if using a CAN system

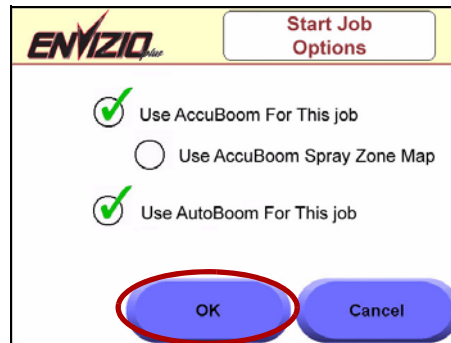
## New Screen Symbols

Icon Name	Description
 	<p><b>SmarTrax Icon:</b> This icon shows the status of the SmarTrax system, with green being system 'On' and the red X being system 'Off'.</p>
    	<p><b>Autoboom Icons:</b></p> <p>Autoboom is on and both booms are on.</p> <p>Autoboom is on, the left boom is on, the right boom is off.</p> <p>Autoboom is on, the left boom is off, the right boom is on.</p> <p>Autoboom is on, but both booms are off.</p> <p>Autoboom is off and both booms are off.</p>

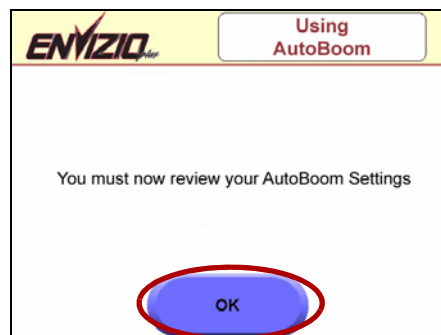
## Starting Guidance

When starting guidance, the following new screens have been added to start a job:

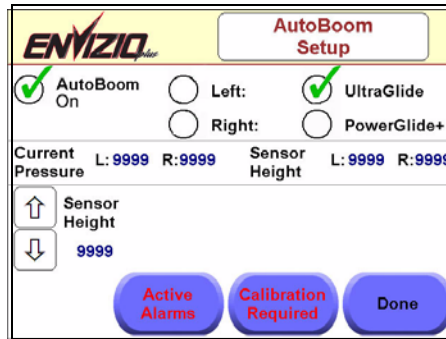
If you are using a CAN system, the Start Job Options screen displays. Select if you will be using AccuBoom (and if using a spray zone map) or AutoBoom for the job, then press **OK** to start the job.



The Using AutoBoom screen appears. Press **OK** to review your AutoBoom settings.



The AutoBoom Setup screen displays. Select the desired settings and press **Done** when finished.



## Configuration Pages

Below is a new chart of the Configuration pages:

There are five Configuration Pages with different options. To get to each of the Configuration options, navigate through the Configuration Pages by touching the 'Next' button. When you would like to configure an option, touch the option. Below is a list of configuration options that appear on each page:

Configuration Page 1	Configuration Page 2
Swath Configuration	Boom Control
Boom Configuration	Navigation Screen Background
Lightbar Configuration	File Management

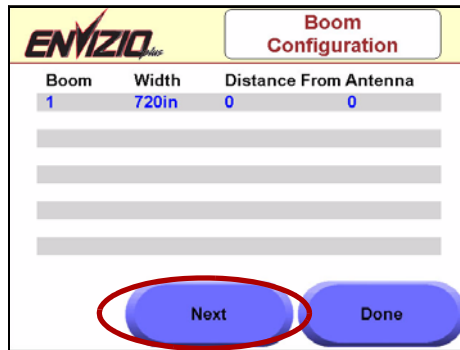
Configuration Page 3	Configuration Page 4
Install Program Update	Adjust Brightness
Timezone Settings	Select Language
Display Units	Demo Mode

Configuration Page 5
Guidance Page Smoothing
TM1 Tilt Sensor

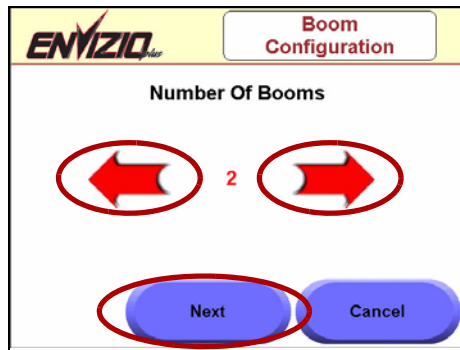
## Boom Configuration

Use this screen to change/set the number of booms. This position should be set in relation to the application point (left/right and fore/aft).

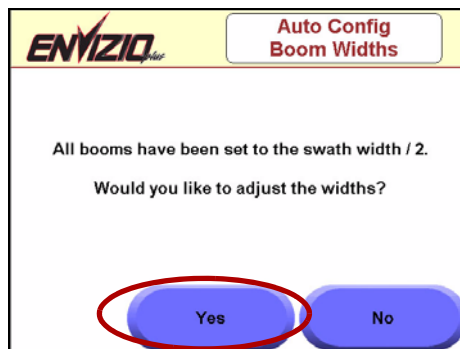
1. From the 'Configuration Page 1' screen, touch the '**Boom Configuration**' button. The 'Boom Configuration' screen displays, showing the current boom setup. Press **Next**.



2. Use the red arrows to **select the number of booms**. Press **Next**.



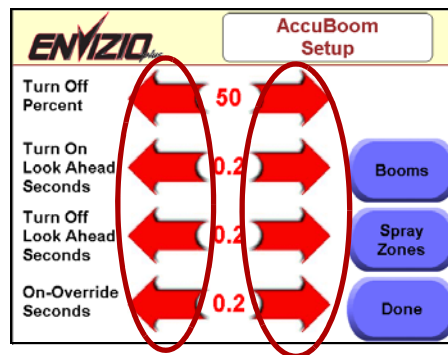
3. To auto configure the boom widths, press **Yes**.
4. The Auto Config Boom Widths screen displays. To adjust the width to something other than what they were auto-configured to, press **Yes**.



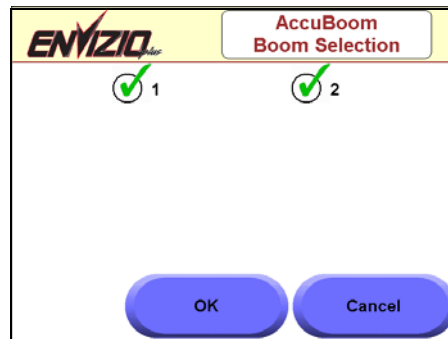
## AccuBoom Setup

To setup the Accuboom control, touch the 'AccuBoom Setup' button. The Accuboom Setup screen displays. **Touch the right or left arrows** to adjust the timing for the different features. These features are defined as follows:

- **Turn Off Percent** - The percentage of the boom that is over a previously applied area before it turns off. It is recommended that this number be less than 90%, otherwise the boom may turn on when not desired.
- **Turn On Look Ahead Seconds** - When the boom is off, this is the time (in seconds) that it takes the boom to actually start applying when turned on.
- **Turn Off Look Ahead Seconds** - When the boom is on, this is the time (in seconds) that it takes the boom to stop applying when turned off.
- **On-Override Seconds** - The time the boom will stay on when the override is pressed from the guidance page.



1. Touch the '**Booms**' button to display the AccuBoom Boom Selection Screen. From this screen, you can choose which booms you want to control with AccuBoom.



2. Touch the '**Spray Zones**' button to display the AccuBoom Spray Zones Screen. From this screen, you can create, modify, and delete spray zone maps.

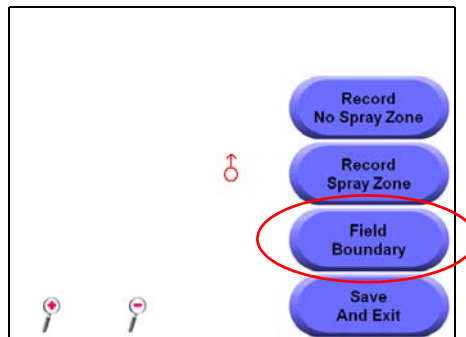


## Creating a New Zone Map (with Field Boundary and Spray Zones)

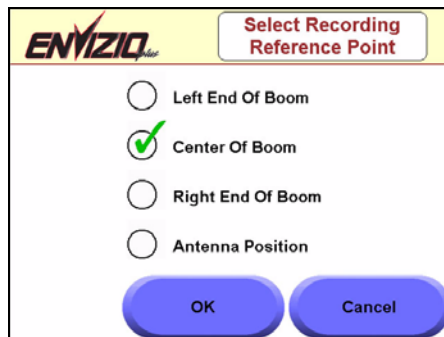


**Helpful Hint:** Modifying a Spray/No Spray Zone Map can also be done within a job under the Field Review Map.

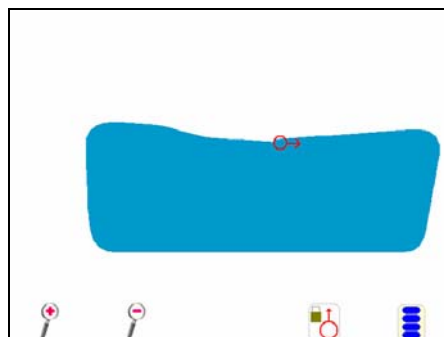
1. Press **Create New Zone Map**.
2. **Type in a name** for the spray zone map and press **OK**.
3. Press the **Menu Button** in the lower right corner of the screen and then press **Field Boundary**, then **Record Field Boundary**.



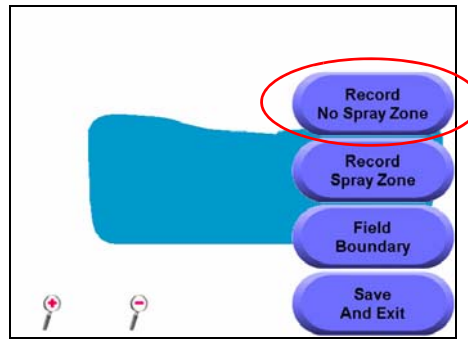
4. Select the Recording Reference Point and press **OK**.



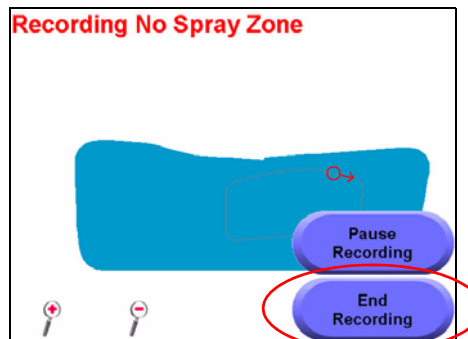
5. Begin recording the field boundary. When you are finished, press the **Menu** button and select **End Recording**.
6. The field boundary will appear on the screen.



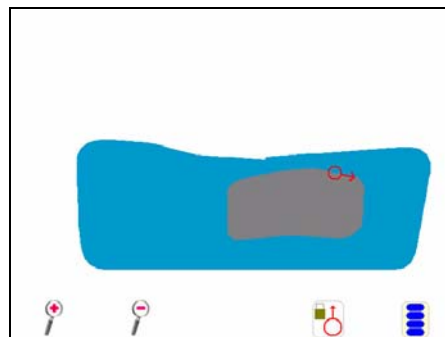
7. Press the **Menu** button and select **Record No Spray Zone**.



8. Begin recording the no-spray zone. When you are finished, press the **Menu** button and select **End Recording**.



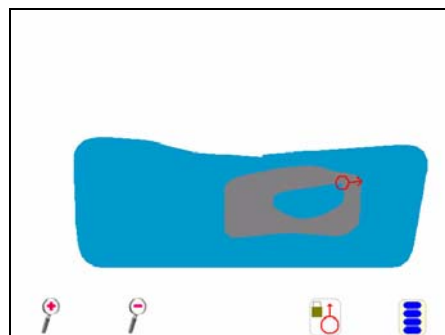
9. The no-spray zone will appear on the screen, along with the field boundary.



10. Press the **Menu** button and select **Record Spray Zone**.

11. Select the Recording Reference Point and press **OK**.

12. Begin recording the spray zone. When you are finished, press the **Menu** button and select **End Recording**. The spray zone will appear on the screen, along with the field boundary.



13. Press the **Menu** button and select **Save and Exit** to save and close the map.



**Helpful Hint:** After saving, a 3 boom width No Spray Zone will be added around the boundary.

## Boom Control Hardware

This button allows you to change or set the boom control hardware.

There are six selections for the boom control hardware setup: **Boom Sense Wire, On-Screen Vehicle Arrow, AccuBoom Master Switch, Raven Console, CAN System, and Boom Node/CAN Console.**

**ENVIZIO** Select Boom Control Hardware

- Master: Envizio Boom Sense Wire
- Master: On-screen Vehicle Arrow
- Master: AccuBoom Master Switch
- Raven Serial Console
- CAN System
- Boom Node / CAN Console

Done

1. **Boom Sense Wire** - will turn the coverage on or off automatically when you turn the master switch on or off, when the master switch is wired to the Envizio master switch wire.
2. **On-Screen Vehicle Arrow** - will turn the coverage map on or off when you touch the vehicle arrow icon on the screen.
3. **AccuBoom Master Switch** - will show coverage based on the AccuBoom master switch when the master switch is physically connected to the AccuBoom master switch wire.
4. **Raven Serial Console** - selecting this will use your existing Raven console to get your applied rates. **MUST HAVE A MASTER SWITCH CONNECTED AND BOOM SWITCHES OFF.**
5. **CAN System** - selecting this will allow the system to use the AccuBoom and/or Autoboom control. **THIS MUST BE ENABLED PRIOR TO USING ACCUBOOM OR AUTOBOOM.**
6. **Boom Node/CAN Console** - select this option when using an Envizio Plus with a SCS 4000 Series console on a CAN system to data log rate from the CAN bus system. **ALL BOOMS MUST BE ON IN ORDER FOR ACCUBOOM TO WORK.**



### Helpful Hints:

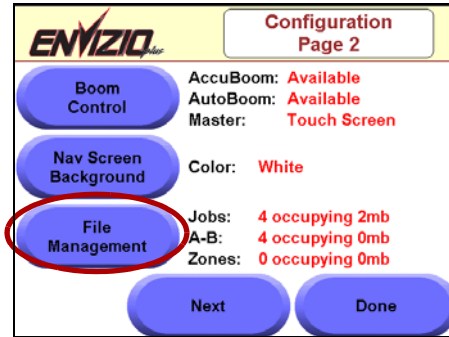
- You must have the boom sense wire connected to a +12 VDC signal source (+12 VDC = map painting is 'On', 0 VDC = map painting is 'Off').
- You can only select either the Boom Sense Wire **OR** On-screen Vehicle Arrow option, not both.



## File Management

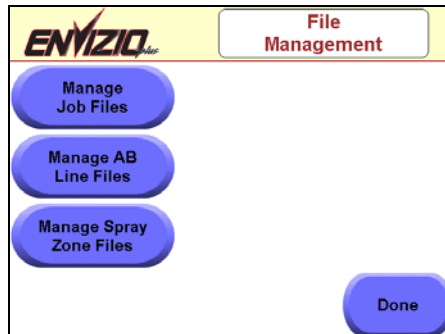
This function allows you to change/set the file management setup. This includes loading jobs to and from internal and external memory, as well as deleting jobs.

1. From the 'Configuration Page 1' screen, touch the 'Next' button. The 'Configuration Page 2' screen displays.
2. Touch the 'File Management' button.

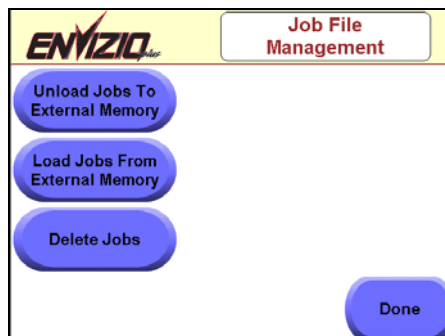


**Helpful Hint:** You cannot enter this configuration while a job is in progress. You must close or end the job before accessing this screen.

3. The 'File Management' screen displays. Choose one of the options available or touch 'Cancel' to return to the 'Configuration Page 2' screen.



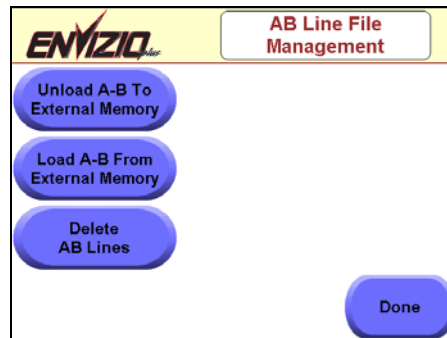
Touch the **Manage Job Files** button to display the Job File Management screen. Choose one of the options available or touch 'Done' to return to the 'File Management' screen.



The chart below shows the Job File Management options and their function:

Button	Function
Unload Jobs to External Memory	Lists all jobs saved on internal memory. Choose which jobs you wish to save to external memory.
Load Jobs From External Memory	Lists all jobs available on external memory. Choose which jobs you wish to save to internal memory.
Delete Jobs	Lists all jobs available on internal memory. Choose which jobs you wish to delete from internal memory.
Done	Cancels Job File Management. Returns you to File Management screen.

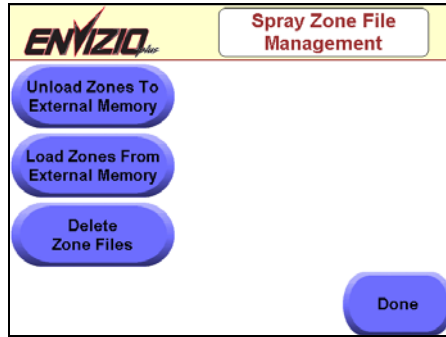
Touch the **Manage AB Line Files** button to display the ‘AB Line File Management’ screen. Choose one of the options available or touch ‘Done’ to return to the ‘File Management’ screen.



The chart below shows the AB Line File Management options and their function:

Button	Function
Unload A-B To External Memory	Lists all A-B lines saved on internal memory. Choose which A-B lines you wish to save to external memory.
Load A-B From External Memory	Lists all A-B lines available on external memory. Choose which A-B lines you wish to save to internal memory.
Delete AB Lines	Lists all A-B Lines saved to internal memory. Choose which A-B line you want to delete.
Done	Cancels AB Line File Management. Returns you to File Management screen.

Touch the **Manage Spray Zone Files** button to display the 'Spray Zone File Management' screen. Choose one of the options available or touch 'Done' to return to the 'File Management' screen.



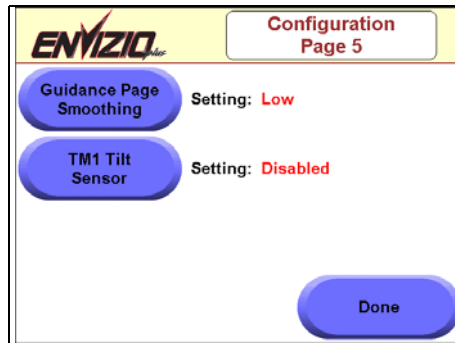
The chart below shows the Spray Zone File Management options and their function:

Button	Function
Unload Zones To External Memory	Lists all spray zones saved on internal memory. Choose which spray zones you wish to save to external memory.
Load Zones From External Memory	Lists all spray zones available on external memory. Choose which spray zones you wish to save to internal memory.
Delete Zone Files	Lists all spray zones saved to internal memory. Choose which spray zones you want to delete.
Done	Cancels Spray Zone File Management. Returns you to File Management screen.

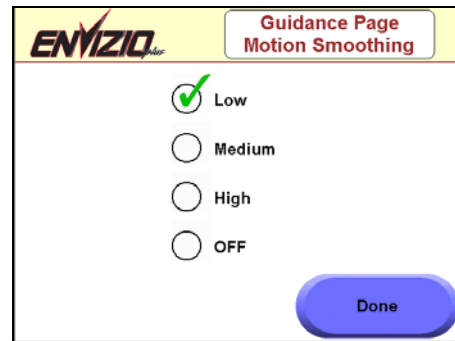
## Guidance Page Smoothing

The Guidance Page Smoothing feature helps to smooth GPS coordinates when driving in rough or uneven terrain, resulting in better on-screen imaging for course over ground simulation. The default for this feature is LOW. This feature has settings for the low, medium, high, or off settings. The low setting will offer slight smoothing of your course over ground, the medium setting will offer moderate smoothing, the high setting will offer aggressive smoothing, and the off setting will turn this feature off.

1. From the Configuration Page 1 screen, touch the 'Next' button. From the Configuration Page 2 screen, touch the 'Next' button. The Configuration Page 3 screen displays. Touch the 'Next' button. The Configuration Page 4 displays. Touch the 'Next' button. The Configuration Page 5 displays.
2. The default for Guidance Page Smoothing is set to 'LOW'. To change the setting for this feature, **continue to step #3** below. If you wish to leave this setting as it is, touch 'Done'.



3. Touch the 'Guidance Page Smoothing' button. The Guidance Page Motion Smoothing screen displays.

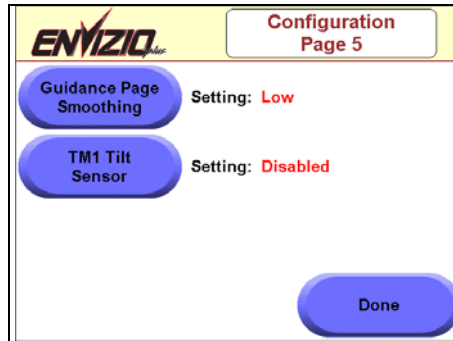


4. **Touch the circle for the smoothing option** that you prefer.
5. Once you are finished selecting your smoothing option, touch the 'Done' button. Your setting will now appear next to the Guidance Page Smoothing button on Configuration Page 5.

### TM1 Tilt Sensor

The TM1 Tilt Sensor is the configuration screen for the Raven external tilt sensor that can be installed externally.

1. From the Configuration Page 1 screen, touch the 'Next' button until Configuration Page 5 displays.



2. From the TM1 Tilt Sensor Setup screen, you can enable the tilt sensor, adjust the polarity, perform calibration, and adjust antenna height.

