

Master Switch Box (MSB)

AGRICULTURE

November 2020

TRIMBLE RESELLER CONFIDENTIAL

Master Switch Box (MSB) and 12-Section Switch Box Support

If you have a Field-IQ™ Basic, ISOBUS, TUV, or Virtual implement, then support of the Master Switch Box and 12-Section switch box is available.

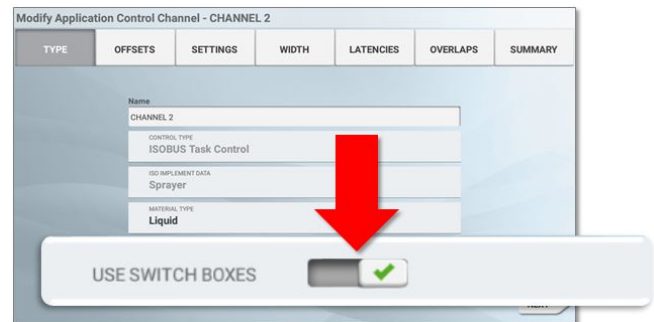
Note: Use of the switch boxes is optional, and when assigned to an application channel the physical switches and master switch, replaces the use and function of almost **all** on-screen virtual switches in Precision-IQ™.

The exceptions are the application of Anhydrous (Field-IQ) and channels using linear actuator drives. A Master Switch box is required for these applications.

When Switch boxes are present, Channels 2 - 6 may “opt out” of switch box control. This setting can be specified on the Application Control Type page of the Application Control Setup wizard:

Notes:

- This option will not appear if switch boxes are not detected by the system.
- This option will not appear for Channel 1, as Channel 1 cannot “opt out” if a switch box is present.



Master Switch Box (MSB) and 12-Section Switch Box Support Contents

[Master Switch Box \(MSB\)](#)

[12 Section Switch Box](#)

[Fence Rows](#)

[Multi-Channel Example with Fence Rows](#)

<http://agpartners.trimble.com>

www.trimble.com

© 2020, Trimble Inc. All rights reserved. Trimble, the Globe & Triangle logo are trademarks of Trimble Inc, registered in the United States and in other countries. Precision-IQ and Field-IQ are trademarks of Trimble Inc. All other trademarks are the property of their respective owners.

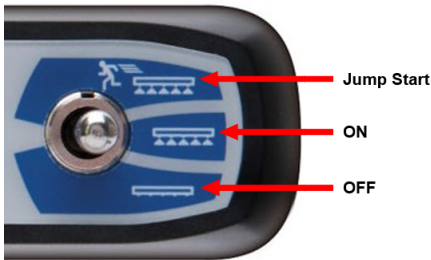



TRANSFORMING THE WAY THE WORLD WORKS



Master Switch Box (MSB)

Only one Master Switch box (MSB) can be used per display. When connected, the (MSB) master switch state is applied to all channels. The on-screen Section Master button becomes a status icon, and its state is slaved to the physical master switch.



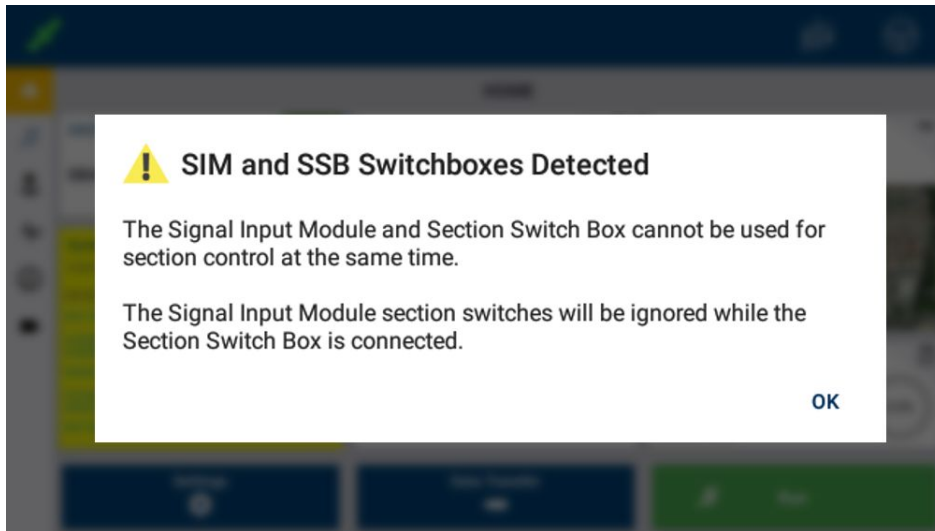
Master Switch Box Setting	Description
	<p>Master Switch/Jump Start</p> <ul style="list-style-type: none"> • Off - All channels will be commanded to stop application • On - All channels will be commanded to apply (assuming the vehicle is not stopped) • Jump Start - is only applied to Field-IQ and TUVr channels. ISO channels will be set to On when the switch is in the Jump Start position. <p>If the master switch box and signal input module are connected, the signal input module is slaved to the master switch state.</p>
	<p>Increase/Decrease</p> <p>When using a preset rate (Rate 1 or 2) This will increment the target rate by the materials target rate increment.</p> <p>Field-IQ only - When the rate is in "Manual" mode. Pressing the switch up will slowly open the valve. Pressing the switch down will slowly close the valve.</p>
	<p>Section Control: Auto or Manual</p> <p>Sets section control mode for channels using the switch box.</p>
	<p>Target Rate Change</p> <p>Target rate change can be set between rate 1, 2, and Manual.</p> <p>The following options apply for Manual rate control:</p> <ul style="list-style-type: none"> • Field-IQ. Using the Increase or Decrease switch (+ or -), the valve can be opened and closed manually. The as-applied rate will read in as flow/minute. • ISO and TUVr Channels. These will lock to the last target rate if the switch is set to Manual rate control (M). They will not be affected by the

12 Section Switch Box



Note: Only one 12-section switch box can be used per display.

If the signal input module (with section switches assigned) and 12-section switch box are connected at the same time, the SIM section inputs will be ignored. The 12-section switch box must be used. The following notification will appear when this situation occurs:



If there are more than 12 sections, then the 12-section switch box will begin to group sections to switches. The system will start to pair sections working from the middle of the implement out.

If multiple channels are in use, then the channel with the smallest section count will be used for switch assignments. Channels with higher section counts will have their sections grouped to match the channel with the lowest count. The number of switches assigned to regular sections will be based on the channel with the smallest section count.

Fence Rows

The **Left Hand** fence row will always be tied to switch 1. Section 1 and following sections will be offset by one switch.

The **Right Hand** fence row will be tied to the switch next to the last section.

For example, if the last section is on **switch 7**, then the right hand fence row will use **switch 8**.

Multi-Channel Example with Fence Rows

This example uses two (2) channels: one channel for ISO (with four (4) regular sections) and one channel for Field-IQ (with six (6) regular sections). The Field-IQ channel has both left and right fence sections enabled.

The Rate and Section switch mapping would be as follows:

- Switch 1 = Field-IQ left fence section
- Switch 2 = ISO regular section 1, Field-IQ regular section 1
- Switch 3 = ISO regular section 2, Field-IQ regular sections 2 and 3
- Switch 4 = ISO regular section 3, Field-IQ regular sections 4 and 5
- Switch 5 = ISO regular section 4, Field-IQ regular section 6
- Switch 6 = Field-IQ right fence section

For More Information

Contact your local Trimble Regional Sales Manager.