4225 SW Kirklawn Ave. | Topeka, Kansas 66609
CapstanAG.com | CapstanAG.ca | prodsupport@capstanag.com | 855-628-7722

Ag-Nav GUIA Platinum Setup for SwathPRO

Wiring

Parts Needed (Not Supplied)

- Four SPST 20A 24v relays
- 16 Spade terminals
- Ring terminals for the ground wires (1–4 depending on chosen configuration)
- Approximately 12–18’ length of 18 AWG mil-spec black wire (depending on chosen configuration) and 6’ lengths of 18 AWG mil-spec white, violet, and blue wire

Capstan SwathPRO Wiring

1. Mount all four SPST 20A 24V relays next to, or close to the Capstan SPDT relay.
2. Cut a 6’ length of black wire and splice it into the Gateway Shut-off Harness, P/N 320124-008-3, parallel to one of the existing black wires.
3. Repeat this process for one of each of the white, violet, and blue wires on the Gateway Shut-off Harness.

   Note: there are multiple white, violet, and blue wires in the Gateway Shut-off harness. Only one of each requires an additional matching-color wire spliced in parallel for this installation.
4. Make the connections for the existing wires from the Gateway Shut-off Harness to the shut-off switches and Capstan relay (SPDT) as described in the SwathPRO Installation Manual.

   IMPORTANT: The following steps apply **ONLY** for installations on systems without a fan brake:

   a. Connect a wire with +24v to terminal 85 on the Capstan relay (SPDT). This can be jumped from terminal 30 if necessary.

   b. Connect the Ag-Nav Autoboom signal wire to terminal 86 on the Capstan relay (SPDT).

Ag-Nav Wiring

5. Locate the Ag-Nav Boom wires, labeled **Booms 1, 2, 3, and 4.**

   Note: Boom 1 wire is a single harness. **Boom 2, 3,** and **4** wires are in a harness together.
6. Cut three additional 2’ lengths of black wire and splice them into the Ag-Nav harness parallel to the existing **GND** (Black) wire.

Right Boom Operation

This installation requires the first two SPST 20A 24v relays and eight spade terminals.

7. Make the following connections on the first SPST 20 24v relay:

   a. Ag-Nav **Boom 2** (white) wire to terminal 30

   b. One Ag-Nav **GND** (black) wire (installed in Step 6) to terminal 87

   c. Ground wire from airframe ground lug to terminal 85

      Note: cut suitable length from supplied mil-spec black wire, route appropriately, and secure with ring terminal at installer’s discretion.

   d. Blue wire from SwathPRO harness (installed in Step 3) to terminal 86

8. Make the following connections on the second SPST 20 24v relay:
   a. Ag-Nav **Boom 3** (red) wire to terminal 30
   b. One Ag-Nav **GND** (black) wire (installed in Step 6) to terminal 87
   c. Ground wire from airframe ground lug to terminal 85

      Note: cut suitable length from supplied mil-spec black wire, route appropriately, and secure with ring terminal at installer's discretion.
   d. White wire from SwathPRO harness (installed in Step 3) to terminal 86

Narrow Swath Switch

This installation requires the third and fourth SPST 20A 24v relays and eight spade terminals.

9. Make the following connections on the third SPST 20 24v relay:

   Note: The Ag-Nav **Boom 1** harness contains a white and a black wire inside the sheathing.
   a. Ag-Nav **Boom 1** (white wire inside sheathing) to terminal 87
   b. Ag-Nav **GND** (black wire inside sheathing) to terminal 30
   c. Ground wire from airframe ground lug to terminal 85

      Note: cut suitable length from supplied mil-spec black wire, route appropriately, and secure with ring terminal at installer's discretion.
   d. Black wire from SwathPRO harness (installed in Step 2) to terminal 86
10. Make the following connections on the fourth SPST 20 24v relay:
   a. Ag-Nav **Boom 4** (Green) wire to terminal 30
   b. One Ag-Nav **GND** (black) wire (installed in Step 6) to terminal 87
   c. Ground wire from airframe ground lug to terminal 85

      Note: cut suitable length from supplied mil-spec black wire, route appropriately, and secure with ring terminal at installer's discretion.
   d. Violet wire from SwathPRO harness (installed in Step 3) to terminal 86

Setup

Set up the number of swaths on the system.

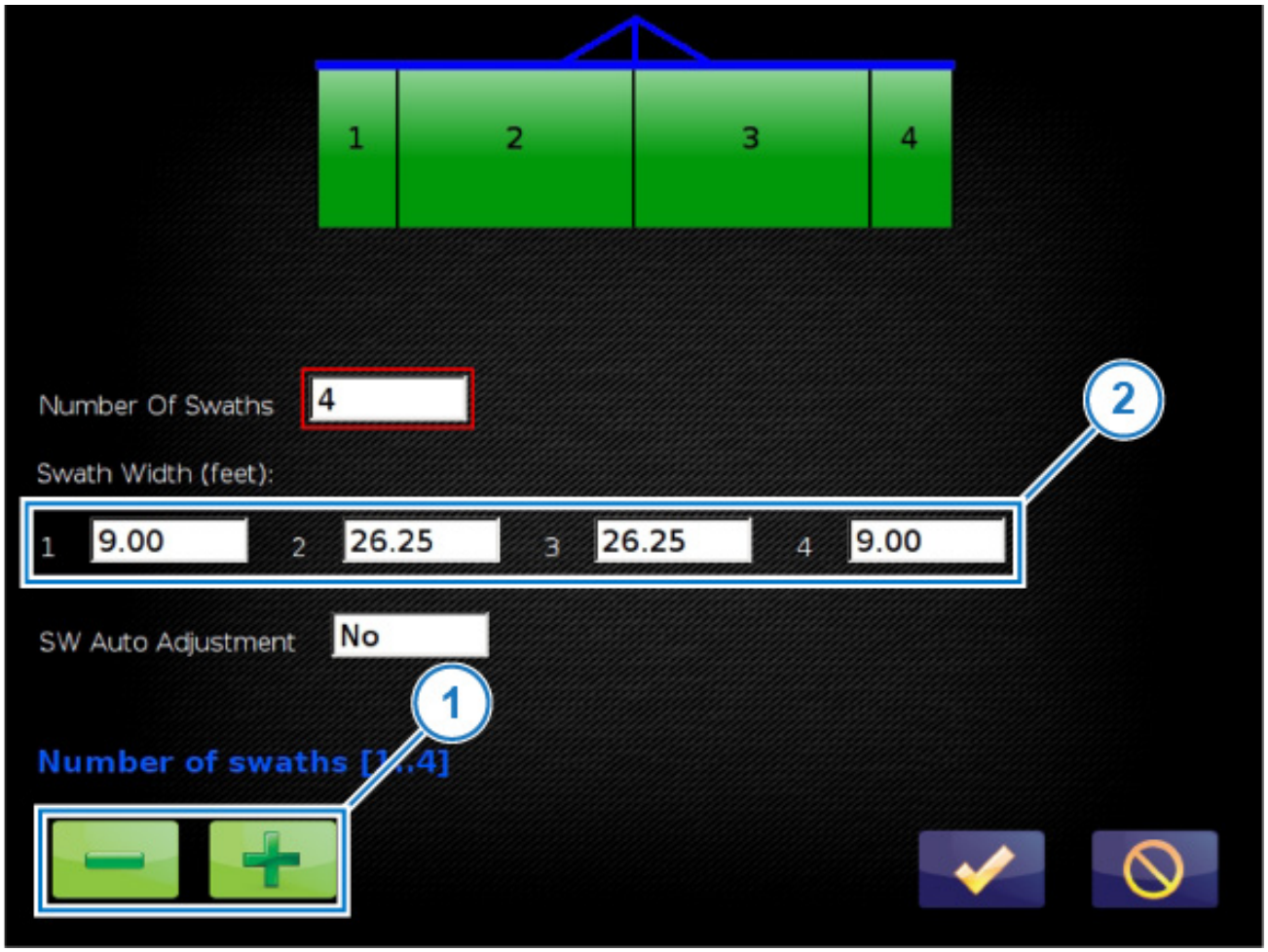

Figure 1: Swath Setup

1. Navigate: **Navigate** > **Application** > **Set Swath**
2. Use the green **-/+ buttons** (Figure 1, Item 1) to increase the number of swaths to 4.
3. Insert values for the width (in feet) of the boom sections in the **Swath Width** boxes (Figure 1, Item 2). **Swaths 1 and 4** should each be 1/8 of the total width of all four swaths. **Swaths 2 and 4** should each be 3/8 of the total width of all four swaths.

   Note: These values will need to be changed every time a swath width is changed.
4. Return to the main screen.
5. Navigate: **Tests** > **Boom Switches**.
6. Use the figures on the following pages to confirm that the booms are configured correctly. Each figure shows the correct Boom Switches display when the controls are in the indicated positions.

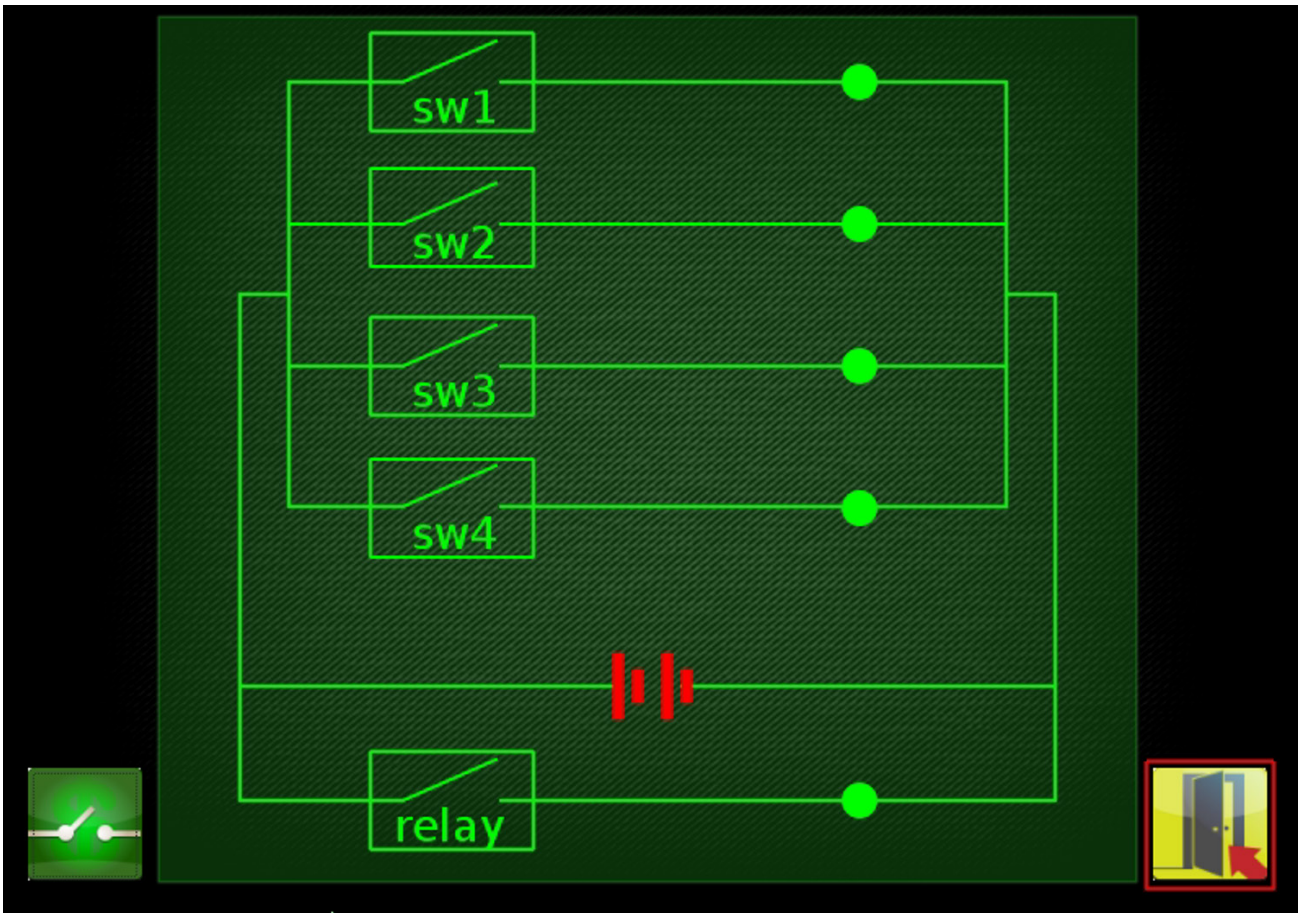

Figure 2: Boom Switches Screen

Right Boom switch: **OFF**

Narrow Swath switch: **OFF**

Spray Handle/Spray Switch: **UP/OFF,** not spraying

Valves: none pulsing

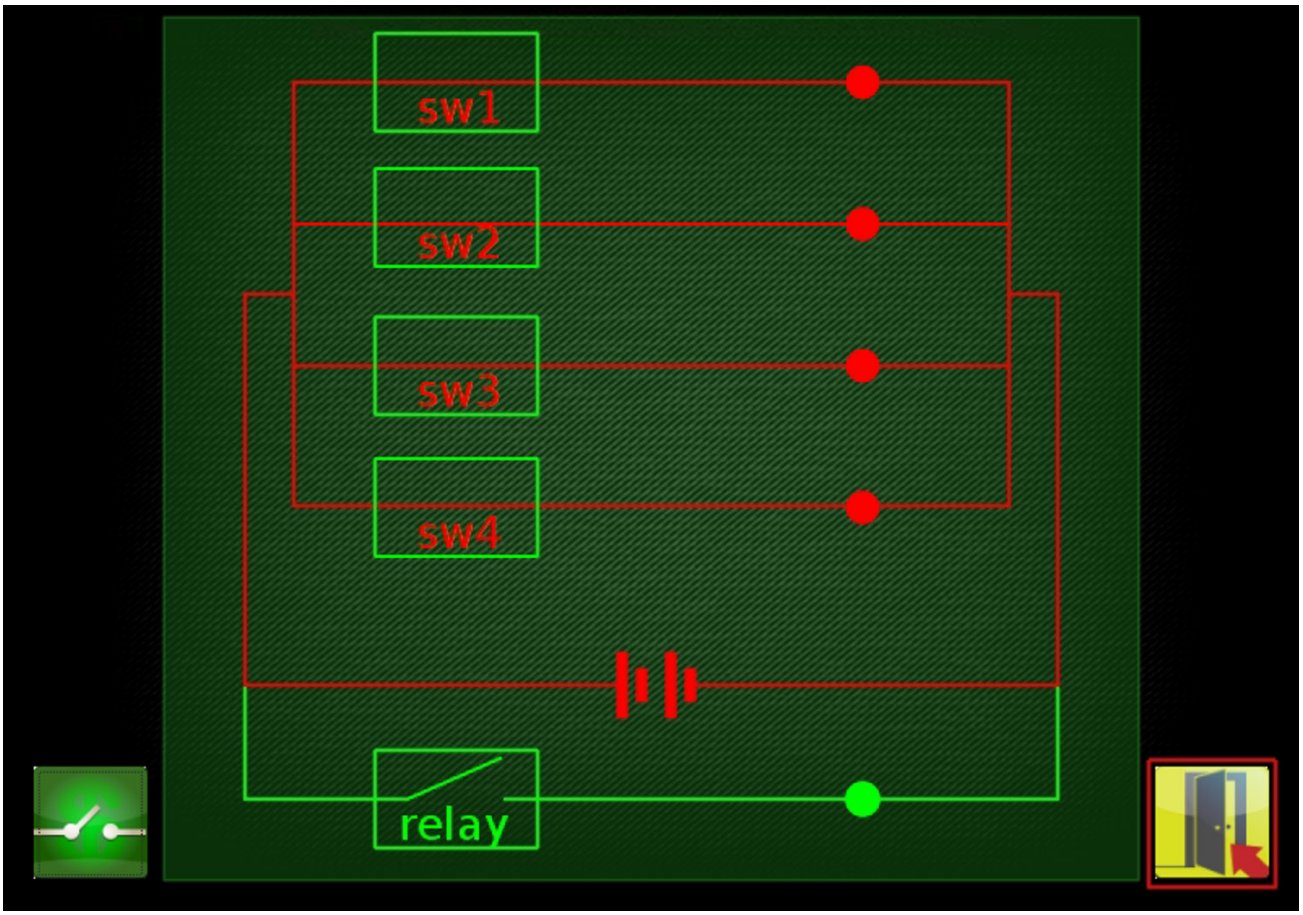

Figure 3: Boom Switches Screen

Right Boom switch: **OFF**

Narrow Swath switch: **OFF**

Spray Handle/Spray Switch: **DOWN/ON,** spraying

Valves: all pulsing

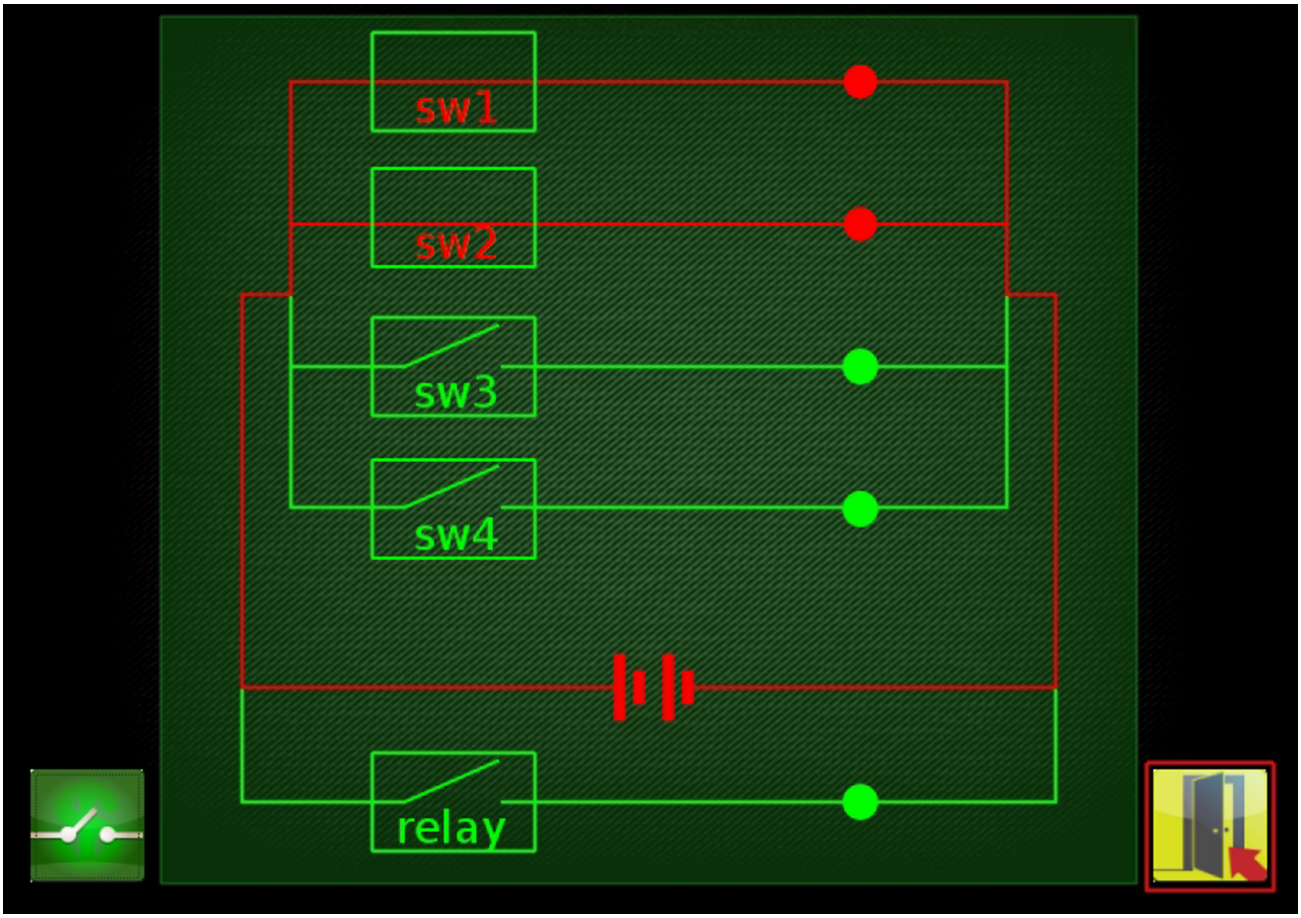

Figure 4: Boom Switches Screen

Right Boom switch: **ON**

Narrow Swath switch: **OFF**

Spray Handle/Spray Switch: **DOWN/ON,** spraying

Valves: pulsing, left side only

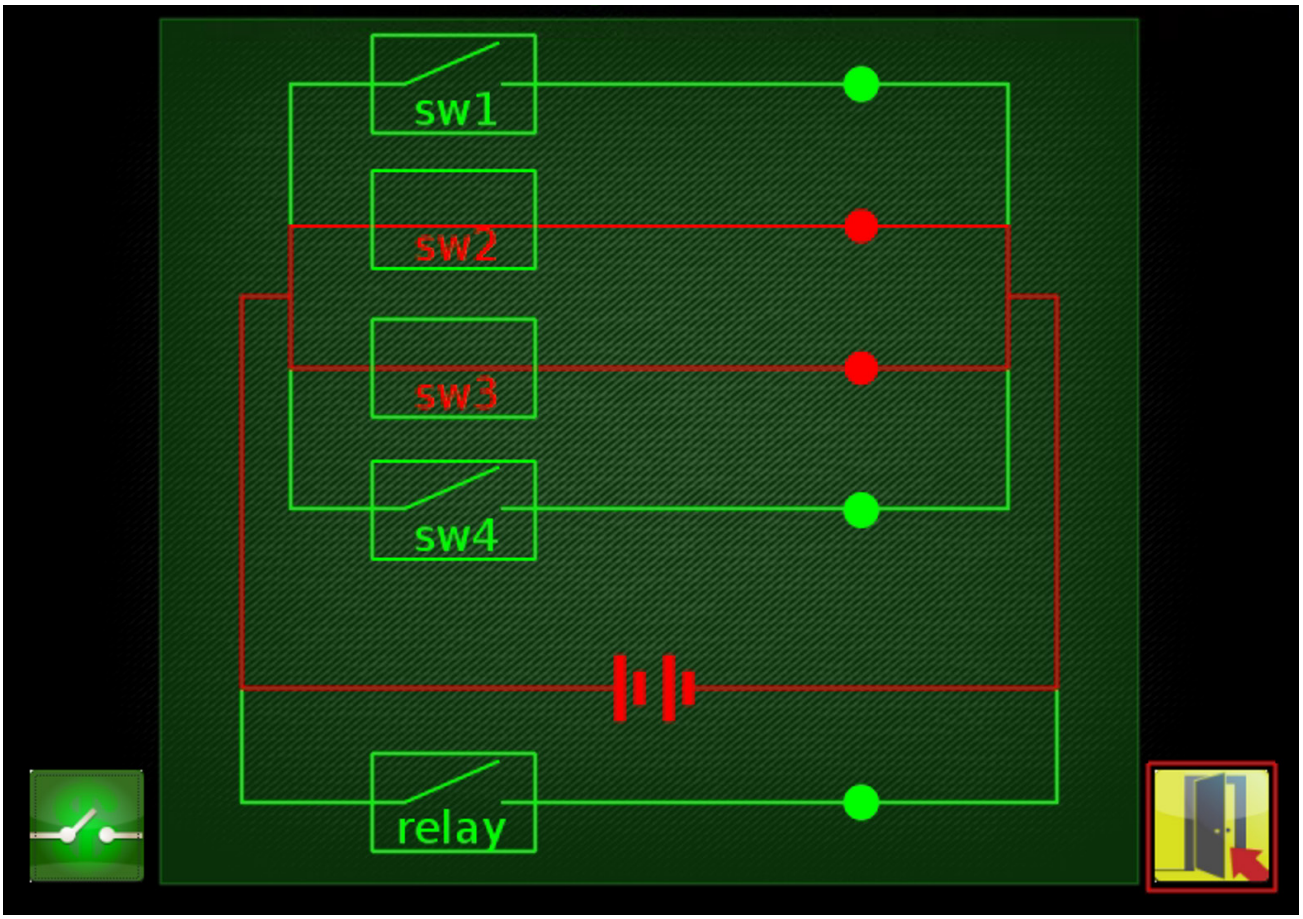

Figure 5: Boom Switches Screen

Right Boom switch: **OFF**

Narrow Swath switch: **ON**

Spray Handle/Spray Switch: **DOWN/ON,** spraying

Valves: pulsing, middle swaths only