

## Transfer the Profile Continued

- If you have made a new profile, click **Choose File** (4) and find the correct profile.
    - The selected file name will show on the screen
  - To load a saved profile, use the **Or select a stored profile** dropdown menu (5) to select desired profile to load.
  - Click **Transmit Profile** (6).
    - As the profile is sent to the controller, **Profile transmission started** will show on the screen. When the transmission is successful a green **Profile transmitted successfully** will show
    - Once transmitted, the profile is stored on controller and available to reload at a later date
- NOTE:** The settings for the selected profile will be show on the screen (7).
- If there is any **red text** on the screen, an error in the transmission communication has occurred.
    - Move closer to the controller and click **Transmit Profile** again
  - You are now ready to spray.

## Spray with Synchro™

- Get the sprayer ready for operation.
  - Make sure that the controller **Synchro** switch (1) is ON when ready to spray.
  - Toggle on the boom switch(es) (2).
- IMPORTANT:** If the sprayer pump is on toggling the boom switches may apply product. You can use the **L** (left) and **R** (right) side of the sprayer separately or together.
- Operate the sprayer.
  - When you are done spraying, toggle the boom switch(es) and the **Synchro** switch off.



**IMPORTANT:** If any switch is ON, the system will still pull a current that can drain the battery.

**NOTE:** If one or both boom switches are ON but the **Synchro** switch is OFF, the system will operate with a constant equal flow of product through all nozzles and not use the profile parameters. The sprayer will function as it would without the CapstanAG system. This can be used to flush the system out, or can be used to spray conventionally, especially during a failure.



# Synchro™

## Quick Reference Information Setup

- While connected to the internet, open a web browser on your computer or tablet.
- Go to <https://orchard.capstanag.com>.
- Enter the correct information for your sprayer. The system configuration interface includes:

- Number of Nozzles per Side:** Use the slider to show the correct number of nozzles on each side of the sprayer
  - Profile Name:** Name the profile for the sprayer
  - Rate (gpa):** The rate of application of product
  - Speed (mph):** Enter the speed the machine will be moving when product is applied
- NOTE:** It is the responsibility of the operator to maintain this speed
- Row Spacing (feet):** The distance between the rows
  - Tip Size and Multiple Tip Sizes:** If the sprayer uses only one tip size, enter the value. If the sprayer has multiple tip sizes, put a checkmark in the box and enter the tip sizes in the additional spaces that show on the screen, i.e. #8 tip = 0.8 gpm @ 40 psi. See the correct tip chart for the correct information. This number reflects the sum of tips if multiple tips per nozzle. i.e. splitter with two tips
  - Pressure (psi):** The force at which you want to spray
- NOTE:** It is the responsibility of the operator to maintain this pressure
- Specific Gravity:** Read the product label for correct information
  - Frequency (Hz):** Contact your CapstanAG representative for specific settings

Number of Nozzles per Side:

Profile Name:

Rate (gpa):

Speed (mph):

Row Spacing (feet):

Tip Size:

Multiple Tip Sizes

Pressure (psi):

Specific Gravity:

Frequency (Hz):

Distance From Centerline (inches):

Nozzle Spacing (inches):

Sprayer Diameter (inches):

# Setup Continued

These values on the left side of the screen reflect the scale of the visual representation only:

- **Distance From Centerline (inches):** The dashed line in the center of the visual representation of the sprayer. The distance from centerline value is the space between the first nozzle to the left or right of the center of the sprayer. The top nozzle/nozzle closest to the centerline of the sprayer is Nozzle #1

- **Nozzle Spacing (inches):** This value is the distance between each nozzle

- **Sprayer Diameter (inches):** This value is measured across the outside of the sprayer

tips. The visual representation of the sprayer will change when the value is changed

On the right side of the screen:

- **Nozzle X Flow (%):** Enter the desired percentage of total flow per nozzle to apply the amount of product as desired for the field and/or crop. A nozzle error message will show and the visual representation of the nozzle will change to red when the flow is outside of the system parameters

Adjust the nozzle flow or change sprayer settings to remove the error.

- **The Total Flow:** of all of the nozzle must be at 100%. If the percentage is not equal to 100% a flow error message will show

Flows	10.00
Diagnostics	10.00





















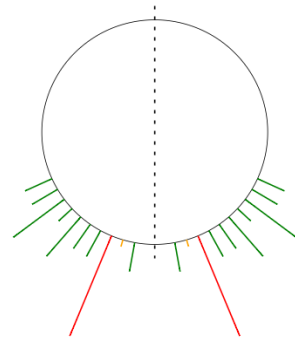
Flow Error: Adjust nozzle flow to equal 100%

Nozzle Error: Adjust red nozzle flow or change tip size

Visual representation of the sprayer—as the information changes on this screen the graphic will change to show how the sprayer will operate.

Nozzle color indicates:

- Orange—nozzle off
- Green—nozzle on and the settings are within the system parameters
- Red—not within system parameters and changes must be made for the system to function



# Transfer the Profile



**NOTE:** Nozzle line length is proportional to the flow—the longer the line the greater the flow.

4. When all of the information is correct, click **Download Profile**, at the bottom on the right side of the screen.

- If the download profile icon is not shown the system parameters are not met

5. If desired, you can move the profile to an external memory device.

- Open the **Downloads** folder on your computer.
- Move the .txt file that is saved as the profile name to an external memory device.

Profiles can also be created while directly connected to controller.

When doing so:

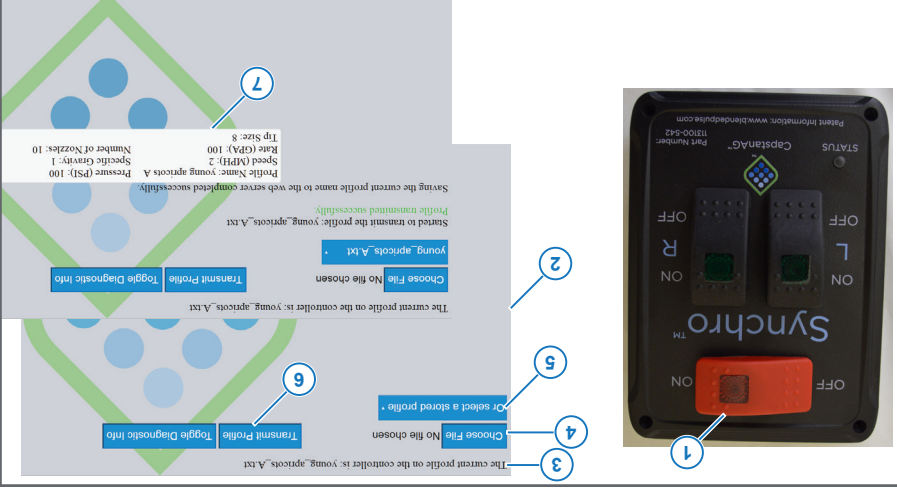
- Connect to the controller Wi-Fi.
- Type [192.168.0.1/generate.html](http://192.168.0.1/generate.html) OR [capstan.ag/generate.html](http://capstan.ag/generate.html) (for non-apple devices).

When using this method, the profile is saved to that controller only. Profile cannot be downloaded or transferred to any other controller.

# Transfer the Profile

Starting to transmit the profile: young\_aprtrcs\_A.txt  
Profile transmitted successfully

Saving the current profile name to the web server completed successfully



- On the machine/sprayer, toggle the **Synchro** switch (7) to on.
- On your computer or tablet, connect to the **SYNCHRO XXXX WI-FI**.

  - There is no password for this Wi-Fi connection.

- Open a web browser and go to [192.168.0.1/transmit.html](http://192.168.0.1/transmit.html) (2) OR [capstan.ag/transmit.html](http://capstan.ag/transmit.html) (for non-apple devices).

  - The top line (3) will always show the active profile.