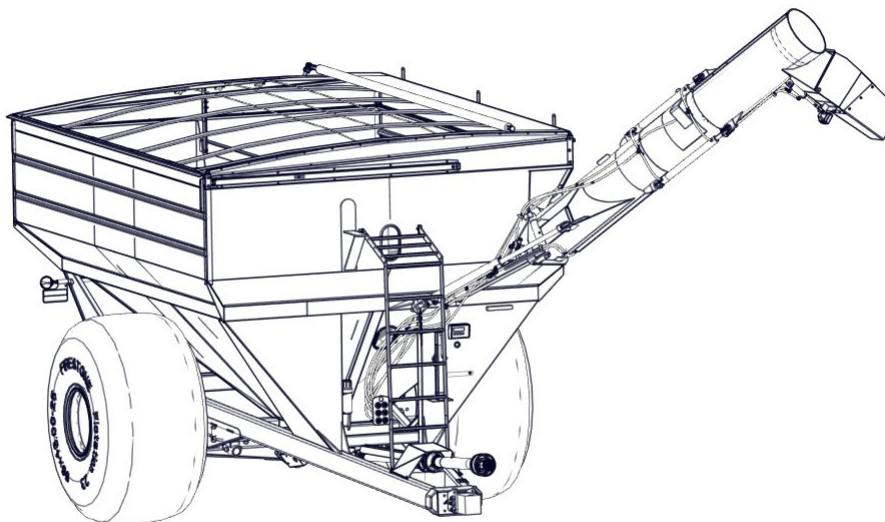




# iFarm by Agrimatics Auto Gate Shut Off Installation Manual

IFM-GS-1P

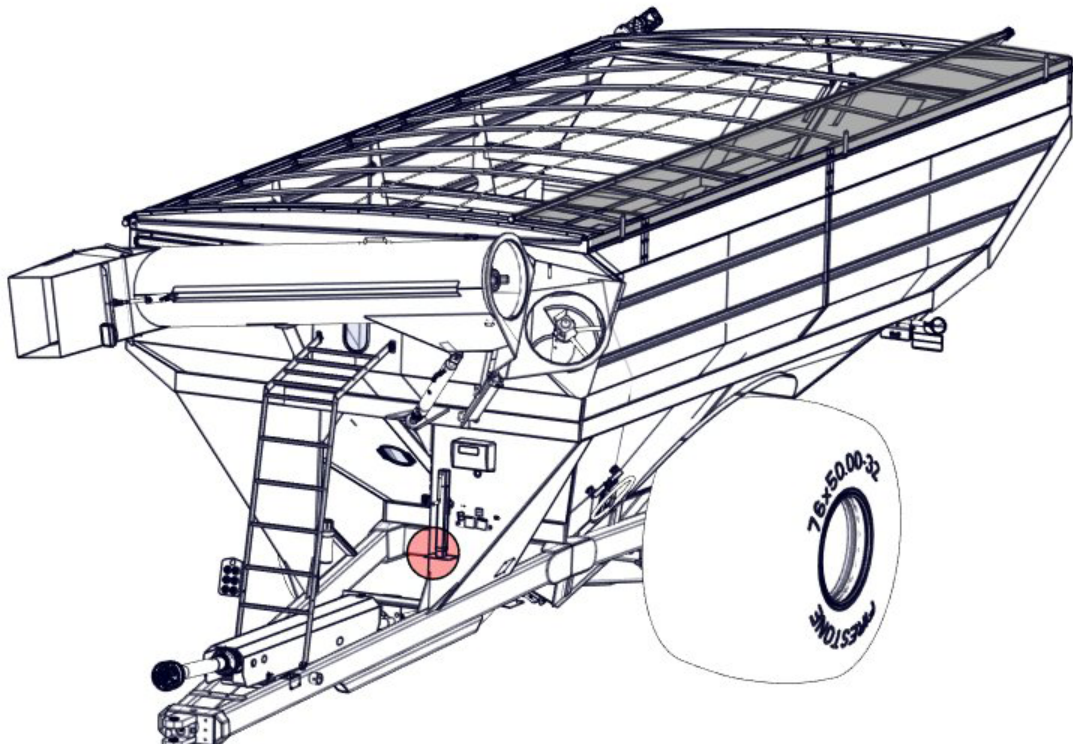
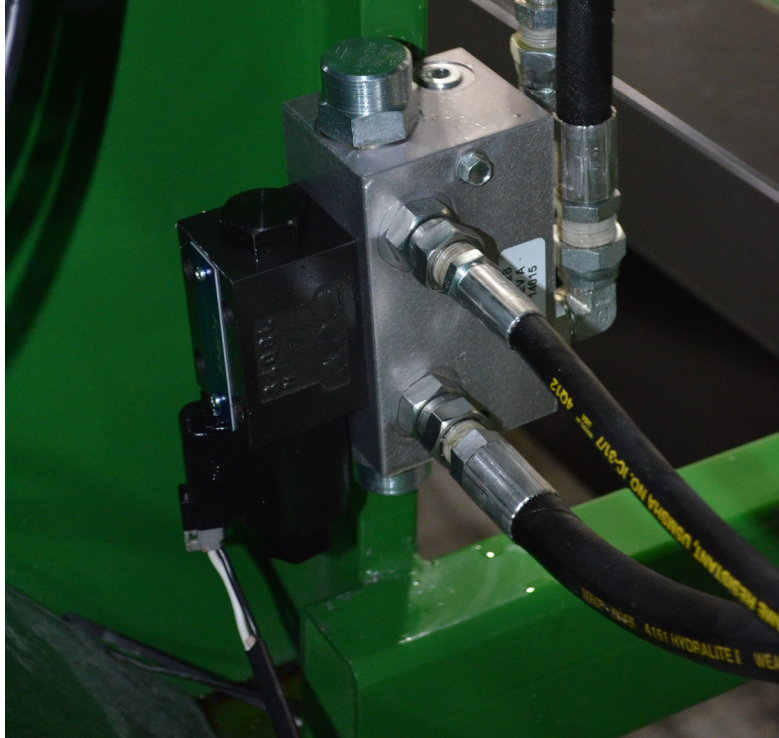
20" Auger And Larger  
iFarm Auto Gate Shut Off  
Manual



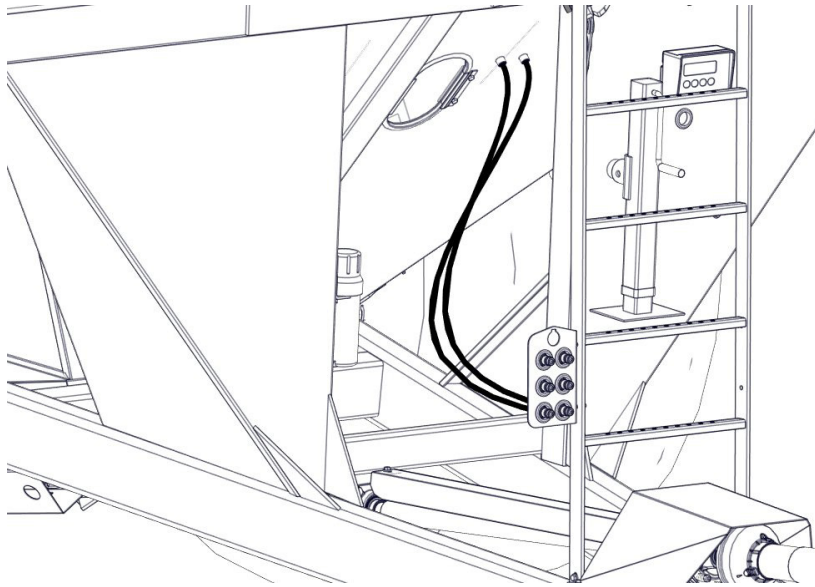
**J. & M. Mfg. Co., Inc.**  
**284 Railroad Street - P.O. Box 547**  
**Fort Recovery, OH 45846**  
**Ph: (419) 375-2376 Fax: (419) 375-2708**  
**[www.jm-inc.com](http://www.jm-inc.com)**



Mount the Hydraulic Valve block to the Left Front Leg. Mark two holes using the hydraulic block as a guide. When marking the holes the bottom of the block should be 5" above the cross brace tube. The block should be orientated with the 1/2" hose connector at the bottom. Drill two holes with a 5/16" drill bit. Install the hydraulic block using (2) 1/4" x 3" hex bolts and (2) 1/4" Centerlock Hex Nuts. Tighten hardware once installed.



Remove the 1/2" and 1/4" hydraulic hoses from the tank.



Connect the hoses removed in the last step to the hydraulic block.  
Connect the supplied hoses to the inside of the block and to the grain cart wall.  
Tighten hose connections once finished.

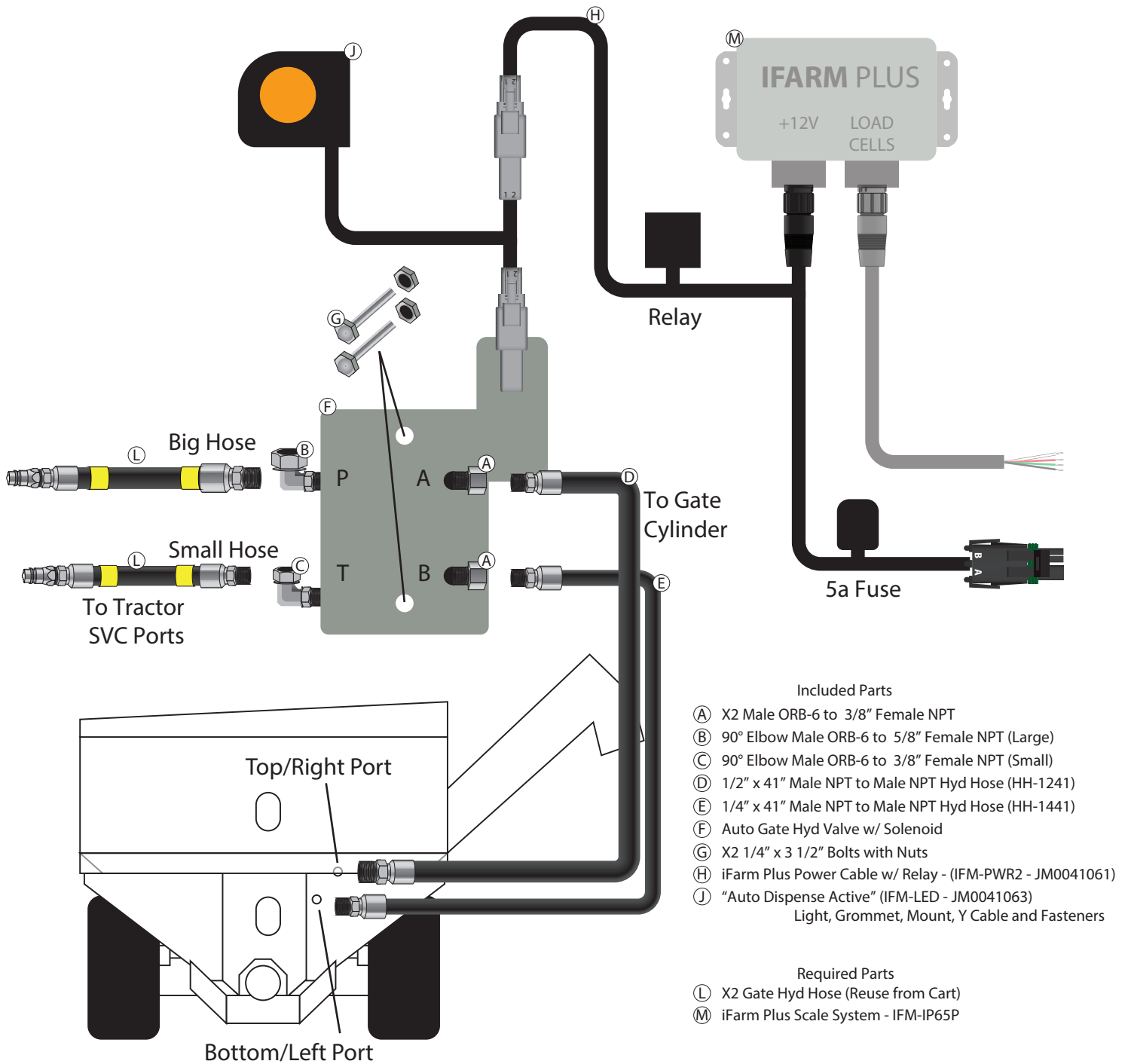


1/2" Hose must be on  
the bottom.

# IFM-GS-1P

## Wiring And Hydraulic Schematic

### 20" Auger Grain Cart



#### Note:

**Mount the hydraulic valve after all the hose are attached but not tightend. This will ensure the hoses will reach.**



# Using the iFarm Auto Gate Shut Off Option iFarm and iFarm Plus

## Step 1 - Get the Latest App

Download the latest iFarm App from the iTunes App Store (At this time, only iOS (Apple) devices are supported. We are currently working on an Android app. Thank you for your patients.)



[www.jm-inc.com/ifarm/](http://www.jm-inc.com/ifarm/)

## Step 2 - Pairing Your Device

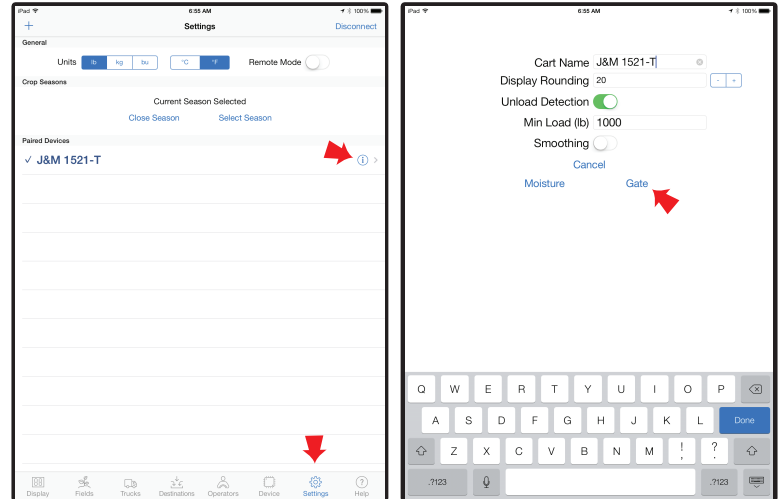
**Note: Skip this step if you are using an iFarm Plus. The Gate Output is built into the device.**

On your Phone/Tablet, open the iFarm app and move to the Settings page. Press the Info button (i) on the paired iFarm Cart Device

You must be paired to the iFarm Cart Device and within 150' of the Gate device. Select **Gate** and then **Pair New** from the pop up menu.

The iFarm app will now search for the Wireless Gate Control Device. When found it will say "Paired Successfully" select "Okay".

If it does not pair with the Wireless Gate Control Device. Be sure a fresh 3.6v Lithium Battery (Included) is installed and try pairing again.



## Step 3 - Using the Auto Gate Shut Off Feature

Extend the Auger to the UNLOAD portion.

Set the Internal Gate Hydraulics to Continuously Close (Float)  
Min. of 12.5 GPM.

Refer to your Tractors Operators Manual for this setting.

Start the PTO.

Set the PTO Speed to 1000 RPM.

Press the **Unload** button on the iFarm app's display page. Select how you would like to load the truck.

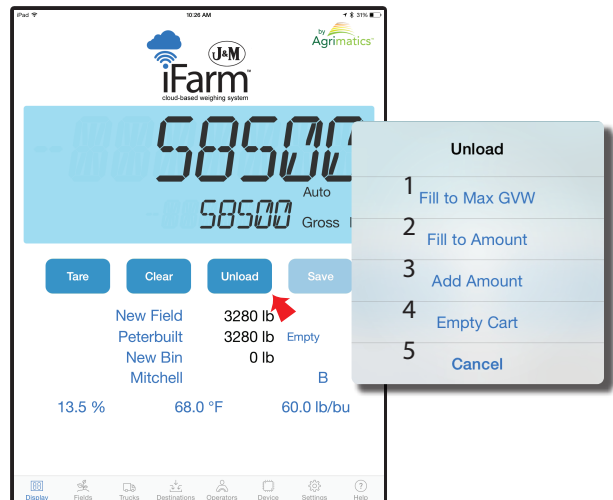
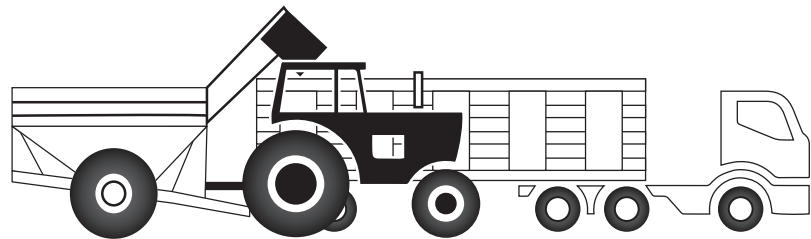
**1 Fill to Max GVW** will unload to the truck's max legal weight.  
Example: When you add a truck in the iFarm app, this will input the GVW and the Vehicles empty weight. This will determine the maximum amount the gate will unload on the truck. The default is 60,000 lbs. If the truck was previously loaded with 10,000 lbs and you return to unload the cart again, the gate will only unload 50,000 lbs. This amount is reset by pressing **Empty** by the truck's loaded weight.

**2 Fill to Net Amount** will fill the truck to a preset weight.  
Example: If your truck already has 20,000 Lbs loaded via the app and you enter 60,000 lbs. The gate will unload 40,000 Lbs. This again is reset by pressing **Empty** by the truck's loaded weight.

**3 Add Amount** will add the entered amount to the truck regardless of what is loaded.

**4 Empty Cart** will simply open the gate and then close the gate when the app detects no more grain available.

**5 Cancel** will cancel the unload selection and return to the display page.



If you wish to stop at any point during the unload process, press **Save**. This will close the gate. Be sure to allow the auger to fully clean out before shutting of the PTO.

For service or technical issues, contact J&M Manufacturing at 419.375.2376 or [ifarm@jm-inc.com](mailto:ifarm@jm-inc.com)

*\*J&M Manufacturing Co., Inc. bears no legal responsibility for the loaded weight of the grain trailer. Please load the grain trailer within the legal limits of you state or providence.*

# Calibrating the Auto Gate Shut Off

## Calibrating the Gate

Note: You must be connected to the iFarm device.

1 - Navigate to the **Device** Page.

2 - Select the **Gate** settings page.

3 - **Auger size (bu)** is the bushel amount the auger holds during clean out. This number should be 10 - 36. This is calculated by finding the volume of your auger and dividing by 3. It's easiest to start at 18 and manually adjust up or down depending on the unload accuracy. If you are over loading, decrease this number. If you are under loading, increase this number.

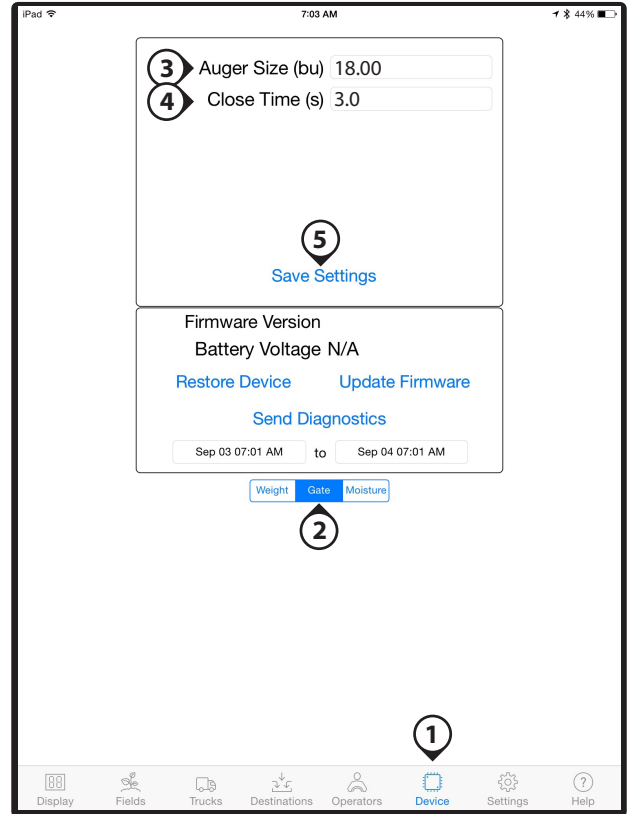
4 - **Close Time (s)** this is the travel time the hydraulic cylinder(s) requires to fully extend to the close position. Default is 3 seconds. Adjust this to match your specific grain cart and tractor combination.

5 - **Save Settings** Press this in order to save the settings to your iFarm Plus or Wireless Gate controller.

## Helpful Tips

Make sure the iFarm is weighing accurately before adjusting the gate settings.

Test the function of the gate by doing a dry run. Use the **Empty Cart** option to test the gate opening and press **Save** to test the closing. If the gate has troubles opening and closing, it might be an indication of too low of hydraulic fluid flow. Increase this amount to 12.5 gpm or higher.



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