



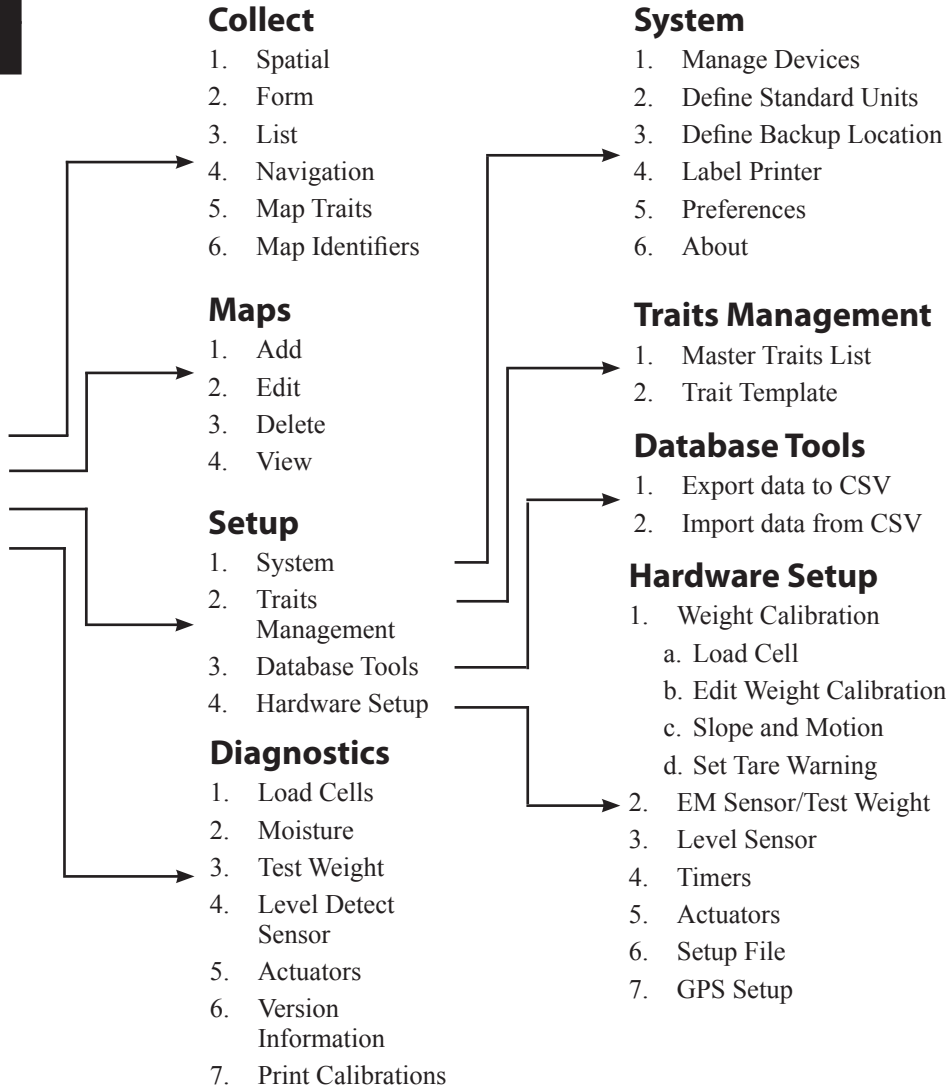
HarvestMaster™

by Juniper Systems, Inc.

High-Capacity GrainGage Quick Reference Sheet

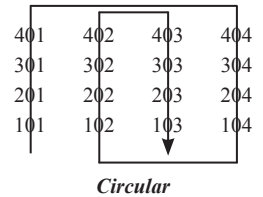
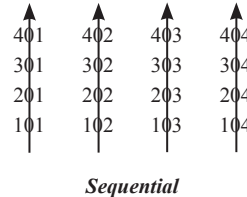
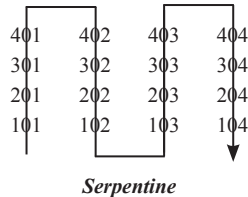
FRS Main Menu

1. Collect
2. Maps
3. Setup
4. Diagnostics



Harvest Setup

1. Select desired *Activity* – *Harvest Plot* or *Harvest Strip*.
2. Select desired *Field Map*.
3. Select desired harvest *Trait Template*.
4. Select *Collect*.
5. Select desired *Moisture Curve*.
6. Select *Form* or *Nav*.
7. Select Navigation Type – *Serpentine*, *Sequential*, *Circular*, or *Random*.
8. Select the *Left Range* and *Left Row* (starting plot).
9. Select the primary and secondary *Direction of Travel*.
10. Select *Save*.
11. Select *Form*.
12. Start harvesting.





Load Cells—Calibration

1. Select *Setup > Hardware Setup > HCGG Setup > Weight Calibration*
Slope and Motion Sensor needs to be turned OFF during calibration.
2. Follow instructions on handheld screen.

EM Sensor/Test Weight Coefficient Calibration

1. Select *Setup (F3) > Hardware Setup > HCGG Setup > EM Sensor > Test Weight Coefficients*.
- * DO NOT ADJUST Coefficient V (CoefV) and Coefficient F (CoefF). Values have been optimized.
2. To adjust your test weight reading, determine the actual test weight of the grain sample.
 3. Enter the diagnostics screen by selecting *Diag (F3)* to see the measured test weight and then pour the grain sample into the weigh bucket
 4. Use the formula below to figure out how much to adjust Coefficient Z to create the new Coefficient Z value.

$$\text{Actual Test Weight} - \text{Measured test weight} = \text{Coefficient Z adjustment value}$$

Level Detect Settings

1. Select *Setup (F3) > Hardware Setup > Classic GrainGage Setup > Level Detect*.
2. The Open and Close levels are settings that determine the amount of grain in the hopper needed to trigger the GrainGage to cycle. The higher the level setting the more grain required to start the cycle sequence. Open and Close Level should never be set lower than 5.0.

HM 800 Default Settings	Open Level – 10.0	Close Level – 10.0	Hopper Delay – 3.0
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HCGG Maintenance Checklist

Item	Process
Start System	First, start the combine. Next, turn on HarvestMaster System Console (Handheld should turn on automatically). Finally, load FRS.
Air Pressure	Air pressure should be set 60 –80 psi.
Air Leaks	If you have a reservoir air tank, turn off the combine after filling the tank. Check for air leaks on all cylinders and solenoids. Also check solenoid exhaust port plugs for any build-up of oil or debris. If they are caked in debris, take the exhaust port out and clean with Brake & Parts Cleaner.
Cable Connections	Ensure all cable connections are tight and there is not any debris in the connections. Be careful when reconnecting the cables not to bend or damage any connector pins.
Debris	Blow out the Graingage at the end of every day. DO NOT use a high-pressure washer to clean system.
Bucket Clearance	The plot bucket should be sitting firmly on the load cell tracks. Check to ensure that all cables and air hoses are not touching the bucket. Also, check the clearance around the bucket.
Actuators Cycle Smoothly	Make sure all cylinders open and close smoothly.
Weight System	Place a known weight into the weight bucket. Verify that the system reads the weight accurately. Remove the weight and verify the system zeros out.
Calibrate Slope and Motion	Procedure is in the manual (HCGG pg. 29)
Calibrate Moisture Curve	Procedure is in the manual (HCGG pg. 38)
Calibrate Test Weight Coefficient	Procedure is in the manual (HCGG pg. 48)

For questions, concerns, or comments

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