Operation Manual

Model 695

100 Gallon Preservative Applicator for Claas 5300



DECLARATION OF INCORPORATION



MANUFACTURER:

Harvest Tec LLC. 2821 Harvey St. P.O. Box 63 Hudson, WI 54016, U.S.A.

REPRESENTATIVE ESTABLISHED IN COMMUNITY: Profitable Farming Company

Middle Barlington, Roborough Winkleigh, Devon, EX19 8AG

ENGLAND

The person above certifies and declares that:

VIRTUAL MACHINE: Equipment mounted on a farm press and for the application of innoculants onto forage crops.

MODEL: 695-19-OPR **BRAND**: Harvest Tec **SERIAL NUMBER:**

This application preservatives for hay Harvest Tec system meets the Directive 2006/42/EC of the European Parliment and the Council of 17 May 2006 and other applicable European Directives including Directive 2004/108/EC on the Electromagnetic compatability.

The application of preservatives for hay Harvest Tec system will be turned on after being installed on a farm press has been declard in conformity with the Machinery Directive.

Person in the community authorized to provide information on the partly completed machinery and making this statement:

Richard Snell, President, Profitable Farming Company Signed on May 21, 2011: Middle Barlington, Roborough Winkleigh, Devon, EX19 8AG **ENGLAND**

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Introduction

Thank you for purchasing a Harvest Tec Model 695 Hay Preservative Applicator. This 695 applicator system has been designed to be operated through an Apple iPad (not included) using the Hay App. As well as the option to plug directly into most tractors that have an ISOBUS Monitor. The 695 Applicator System offers these advantages by operating through an Apple iPad:

- 1. Large bright, clear, colorful display
- 2. More durable and can be read in bright sunlight
- 3. Wireless connection in cab
- 4. Can be used for multiple other uses than just the applicator display
- 5. Option to tie-into the tractor ISOBUS system

The 695 Hay Preservative Applicator System is designed to apply buffered propionic acid to the forage crop as it is baled and will adjust the rate of application based on moisture and tonnage of the crop being harvested. The model 695 base kit includes: tank, frame, pumps, hose, and the Dual Channel Processor (DCP). This manual will take you through the steps for installing the applicator. If you are unsure about installing the system after consulting this manual, contact your local authorized dealership for additional assistance. If you are in need of parts for the system please see the parts breakdown in the back of this manual and contact your local authorized dealer to order the parts. This applicator is designed to apply Harvest Tec buffered propionic acid.

Right and Left sides are determined by facing in the direction of forward travel.

*Made for iPad® (3rd through Pro 2nd generation), running the current iOS operating system or one version previous required for iPad option

*iPad is a trademark of Apple Inc., registered in the U.S. and other countries.

**600 Series Applicators with serial number before DCP27000 will require the DCP to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6672C).

*Hay App version must be at least 2.5.18 (or higher) to operate with the iPad Integration Module

Tools Needed:

- Standard wrench set

- Electric drill and bits

- Side cutter

- Crescent wrench

- Standard screwdriver

- Center punch

- Standard nut driver set

- Standard socket set

- Hammer

- Metal cutting tools

- Hose cutter

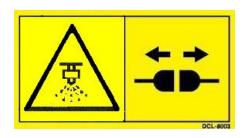
Safety

Carefully read all the safety signs in this manual and on the applicator before use. Keep signs clean and visible. Replace missing or damaged safety signs. Replacement signs are available from your local authorized dealer. See your installation manual under the replacement parts section for the correct part numbers.

Keep your applicator in proper working condition. Unauthorized modifications to the applicator may impair the function and/or safety of the machine.

Carefully read and understand all of the baler safety signs before installing or servicing the baler. Always use the supplied safety equipment on the baler to service the applicator.

Safety Decals



Number 1

Spraying hazard. Disconnect power before servicing the applicator

Part no. DCL-8007



Number 2

Falling hazard. Do not step in this area.

Part no. DCL-8002



Number 3

Use caution when working around chemicals. Wear all protective equipment according to the label of the product.

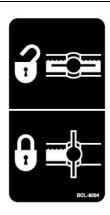
Part no. DCL-8006



Number 4

Read and understand the operator's manual before using or working around the equipment.

Part no. DCL-8000



Number 5

Open (unlocked) and closed (locked) position of the ball valve.

Part no. DCL-8004

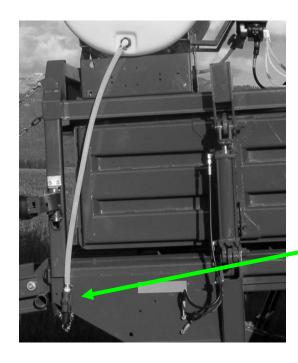
Preparing the Applicator for Operation

After the Applicator has been installed on the baler, please follow the steps below to prepare for operating the applicator both safely and correctly.

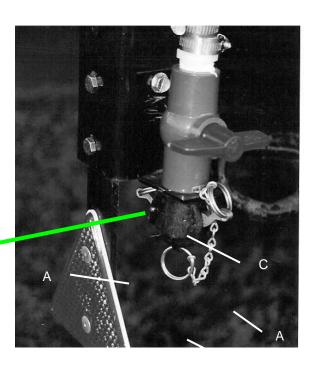
Filling the tank:

Read the label of the product you choose to fill the tank to determine individual protective measures you the operator should take. Locate the drain/fill line on the right side of the baler. Open the cam-couplers (A) and remove the protective plug (B). Insert the male coupler (found on transfer pump) into the female cam and close the cams (A). To open the ball valve (C) turn the handle so it is vertical. After the ball valve has been turned on switch the pump to the On position. Monitor the level on the tank visually and shut off the pump before over filling. Once the pump is turned off, close the ball valve and remove the male coupler. The handle of the ball valve (C) will be horizontal when closed. Reinstall the protective plug and close the cams. The Harvest Tec model 9212 and 9215 transfer pumps are recommended for this process.

Water is recommended for first time and annual start up procedures.



Drain/Fill line on right side of baler



Enlarged view of the drain/fill line valve and cam-coupler assembly.

Operation

Turn On / Off iPad using the Sleep/Wake button

*(Info from Apple User's Guide)

<u>Turn iPad on</u>. Hold down the Sleep/Wake button until Apple logo appears. iPad will take a moment to load.

You can lock iPad and put it to sleep when you're not using it. Locking iPad puts the display to sleep, saves the battery, and prevents anything from happening if you touch the screen.



Sleep/Wake Button

When you are not going to use the iPad for an extended period of time put the unit into sleep mode by pressing the Sleep/Wake button. Press Sleep/Wake button to wake iPad and then unlock iPad by entering passcode.

<u>Turn iPad off.</u> Hold down the Sleep/Wake button for a few seconds until the slider appears onscreen, then drag the slider to the right.

Downloading Harvest Tec App

1. If iPad does not have Wi-Fi turned on, select the Settings tab



then select the Wi-Fi tab (below).

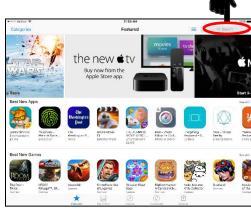


- 2. Turn Wi-Fi on by sliding button to the right.
 *Green bar indicates ON
- 3. Use same process to turn on Bluetooth function
- 4. Select an available network when detected by the iPad, shown in area above that currently says 'Other.'
- 5. Select App Store icon (below) and open. *You will need a Wi-Fi connection available to view App Store.



**The Harvest Tec system WILL NOT appear under the Bluetooth tab in the Setting App. Open the Hay App to connect.





Download the Hay App in the App Store by searching for 'Hay App' in the search bar in the top right corner of screen (right):

*The advertisements displayed on the App Store screen will change.

The app will have the icon as shown:



Hay App

Note: Made for iPad® (3rd through Pro 2nd generation), running the current iOS operating system or one version previous required for iPad option

Shutting Down the Hay App

To shut down the Hay App double click the home button (Figure A). This will show the open apps that are running on your iPad (Figure B).

*Note: By pressing the home button one time to return to the home screen, the Hay App **does not** shut down. The system will however, stop applying preservative after 10 seconds.



Figure A

Slide the app you want to shut down by sliding the app toward the top of the iPad, until the app is no longer visible (Figure C).





Figure B Figure C

iPad Integration Control Module

To operate the applicator, connect the iPad cord to the iPad Integration Control in the port indicated by:



iPad Integration Control Light Signals

Green Slow Blink – Power supplied to the applicator system and the unit is going through its startup process. This will take approximately 25-35 seconds.



Green Double Blink – Indicating the iPad module recognizes the iPad but the app is not open or connected.

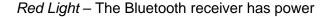
Green Solid Light – Module is connected to the app and is ready to operate.

*Recommended to use the USB cable included with the applicator kit (006-6672USBC)

Bluetooth Receiver Lights

Pre-2020 applicators equipped with Bluetooth receivers (030-6672B) are now equipped with lights to indicate both power and Hay App connection on the Apple iPad. Clean light regularly

Blinking Lights – System is waiting for the processor to connect, which could take up to 35 seconds.



Green Light – The Bluetooth receiver is connected to the Hay App.



**600 Series Applicators with serial number before DCP27000 will require the DCP to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6672C).

Hay App version must be at least 2.5.18 (or higher) to operate with the iPad Integration Module

*Made for Apple iPad badge

Use of the Made for Apple iPad badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with an Apple product may affect wireless performance.

Operating the Harvest Tec iPad App (continued)

When ready to operate your applicator system, open the Hay App on the iPad by selecting the Hay App icon.

Device Selection

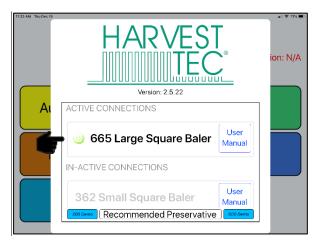
The app will open to the Device Menu screen as shown below.

Pre-2020 applicators which are equipped with the Bluetooth receiver (030-6672B) that are within range (20') of the iPad and have power going to them, will be shown under the Active Connections section (below) after the initial startup of the system (35-45 seconds).

Production year 2020 applicator systems and beyond will include the iPad Integration Module 030-6672C. When plugging in the iPad cord to the module the app will change to the applicator Main Menu for immediate operation. Unplug the cord to return to the Device Menu page.

*Hay App version must be at least 2.5.18 (or higher) to operate with the iPad Integration Module (030-6672C)

After the iPad connects to the Bluetooth receiver, select the applicator you want to connect with.



The In-Active Connections section will show applicator systems that have been connected in the past, but are not within range of the iPad or do not currently have power going to them (bottom left).

To remove a baler from the In-Active list, slide the bar displaying the baler name to the left, and select the Delete button that will appear (bottom right).





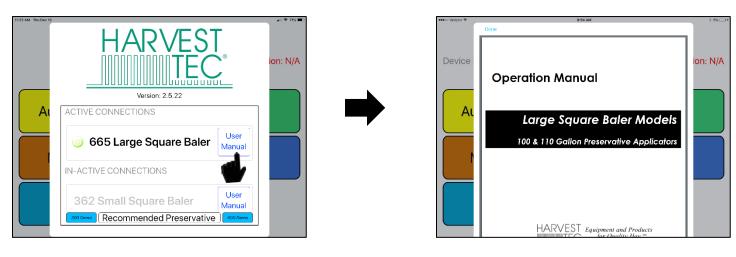
Operating the Harvest Tec iPad App (continued)

Manual Selection

Selecting the Manual button (below) displayed to the right of the baler name will open the operation manual for your baler.

*Use the following information for Large Square Balers.

*You do not need to be connected to a baler to open the manual after a baler has been connected.

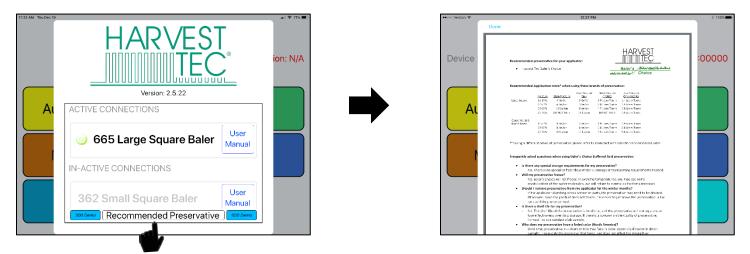


When finished reviewing the manual, press the Done button in the top left corner to return to the Device Menu.

Recommended Preservative

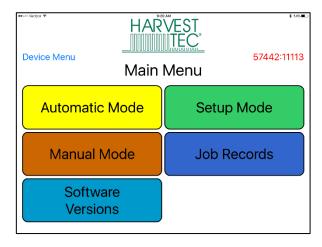
To view recommended preservative information, application rates, and frequently asked preservative questions, select Recommended Preservative (below).

*You do not need to be connected to a baler to open the recommended preservative page.



Operating the Harvest Tec iPad App (continued)

Once you have selected the baler you want to connect with from the Device Menu, the applicator main menu will display (below).



Tab Descriptions

Automatic Mode: This mode allows you to use all of the applicator features such as adjusting preservative application on the go and counting total pounds of product used.

Manual Mode: Allows operator to manually turn pumps on and off. This mode also has moisture content displayed. Use this mode to prime pumps.

Software Versions: Selecting this tab will display the software currently installed.

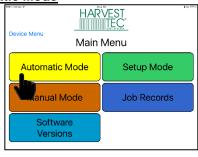
Setup Mode: This mode allows the operator to adjust bale rate, application rate settings and select tip output.

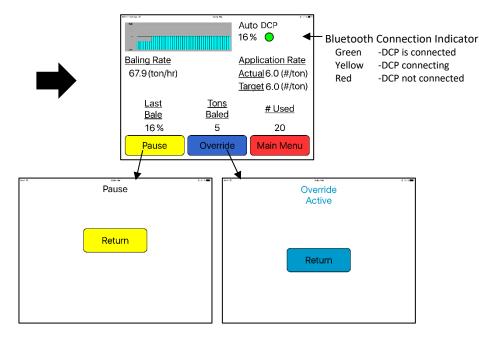
Job Records: Keep track of up to 300 jobs with total product used, average moisture content, tons baled, and baling date.

Screen Menus

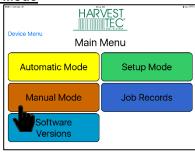
Use the screen shots below to navigate through the operation screens.

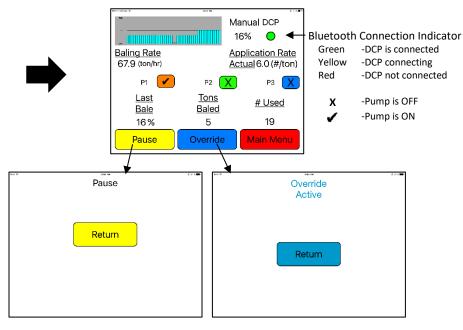
Automatic Mode





Manual Mode





Operation Note:

Pressing the Home Button on the iPad WILL NOT immediately stop application of the System (see below):

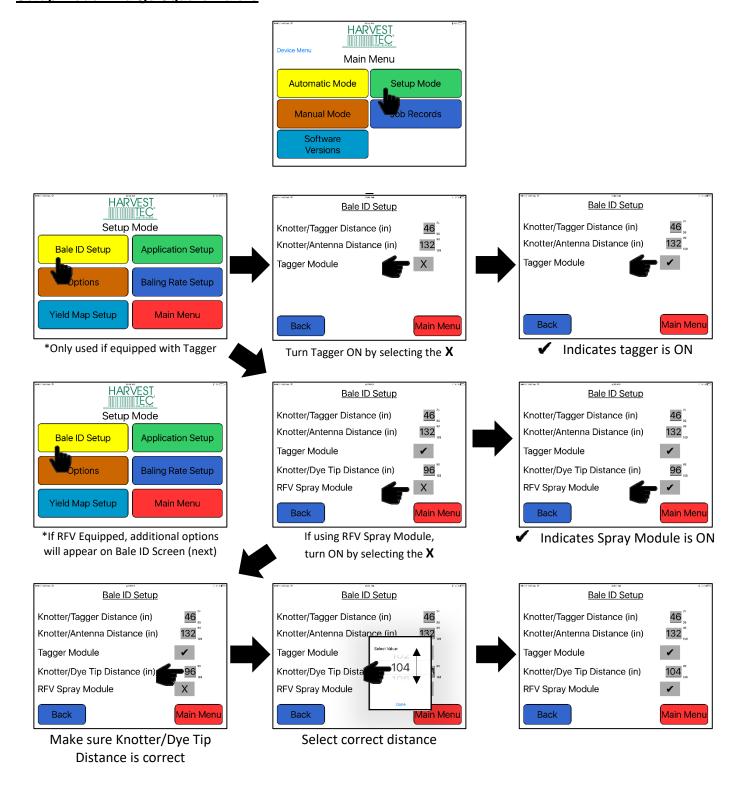


Select Pause or Main Menu to stop application

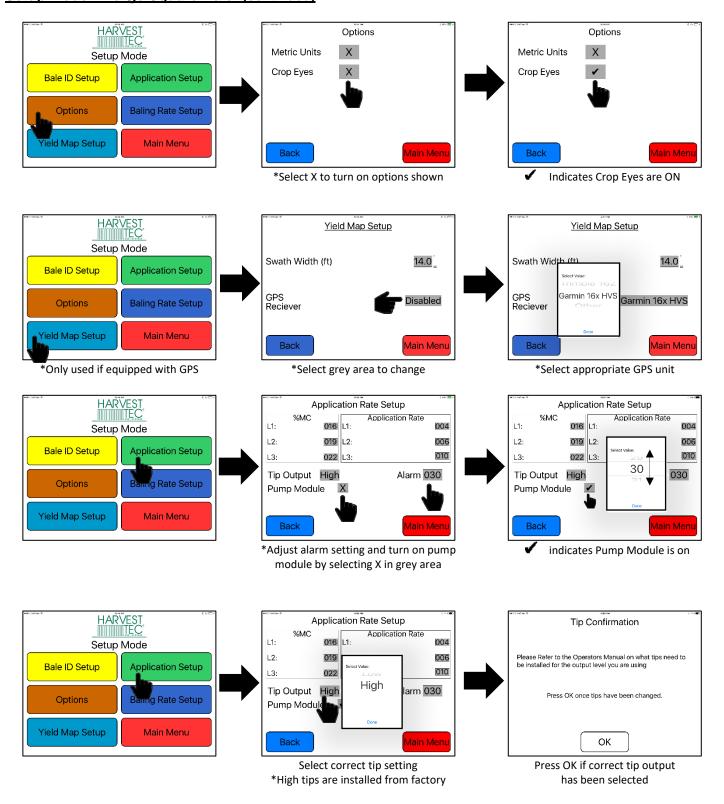
*To close app see the Shutting Down Hay App Section

**When the app is not displayed for 10 seconds, preservative application will stop.

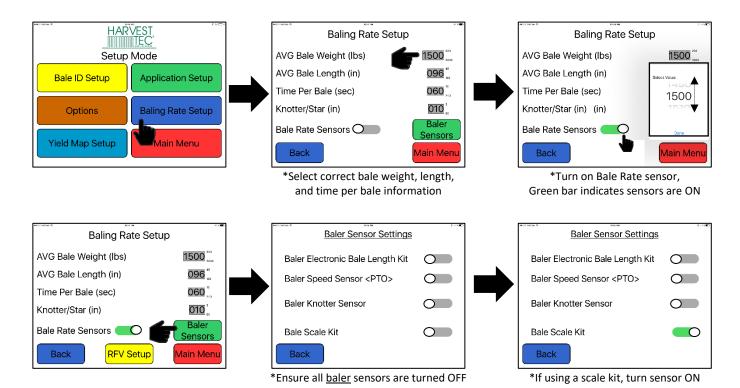
Setup Mode - Large Square Balers



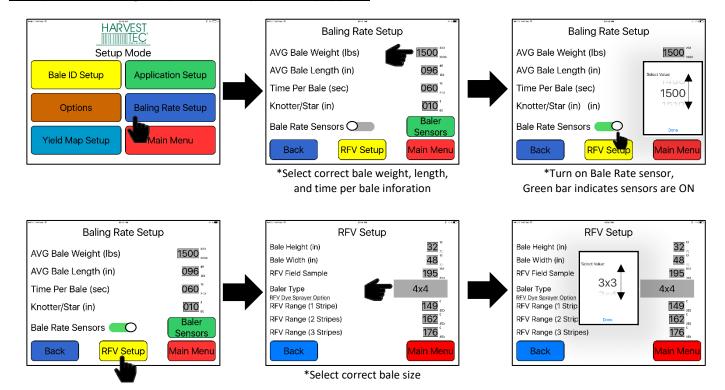
Setup Mode - Large Square Baler (continued)



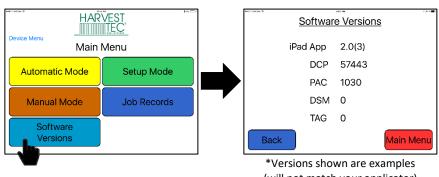
Setup Mode - Large Square Baler (continued)



Setup Mode - Large Square Baler (If RFV Equipped)

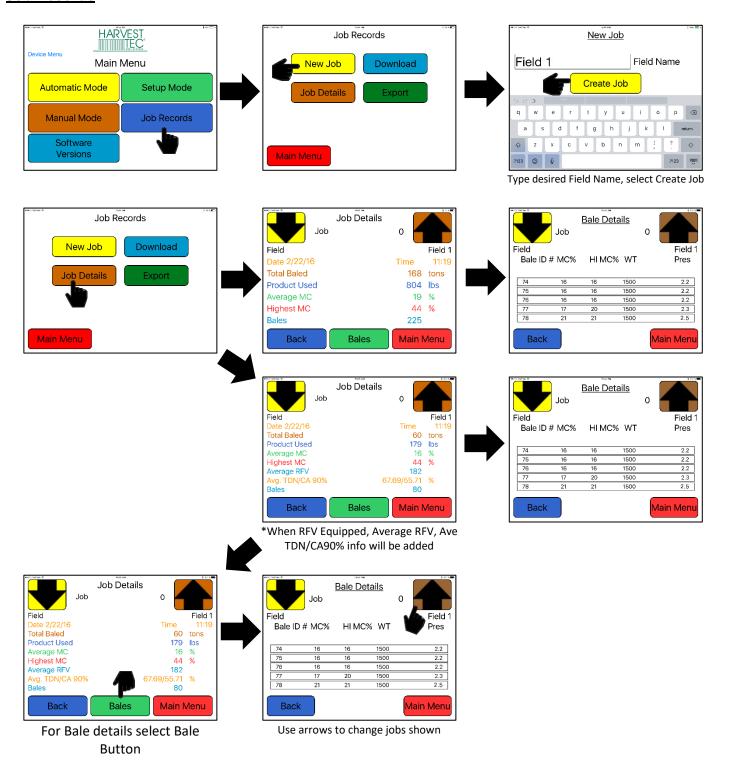


Software Versions



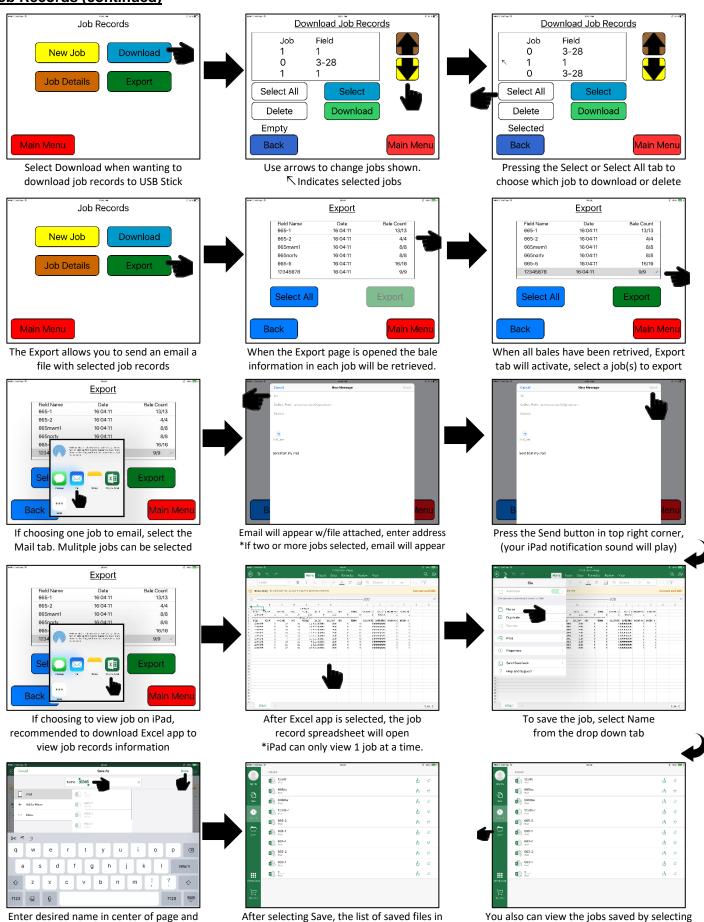
(will not match your applicator)

Job Records



Job Records (continued)

press Save on the top right corner



Open tab after opening the Excel app

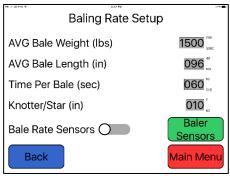
Excel will appear. Select any job to view

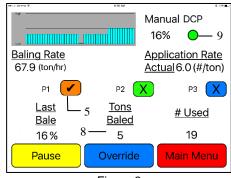
First Time and Annual Startup Instructions – Large Square Balers

THE UNIT MUST BE CHECKED OUT BEFORE FIELD OPERATION!

Check and Prime the Pumps

- 1. Put 10 gal (5L) of water in tank and turn main ball valve on.
- 2. Inspect for any leaks or drips at this time. If any are found tighten or replace area or fitting.
- 3. Press the SETUP MODE key. Turn bale rate sensors off (Figure 1). Make sure the AVG Bale Weight is 1500 lbs (680kg) and the AVG Baler Length is 96" (243cm), Time per bale is 60 seconds, and press the MAIN MENU key to return to the opening screen.
- 4. Press the MANUAL MODE key and the screen will appear.





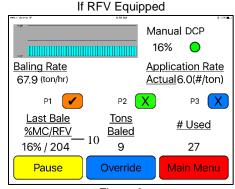


Figure 1

Figure 2

Figure 3

Note: The system comes with the tips already installed on the spray shield or nozzle tubes.

Pump	Low Output (Lbs / Ton) (L/MT)	High Output (Lbs / Ton) (L/MT)
1	1.1 – 1.5 (.57L)	1.9 – 2.6 (.9 - 1.2L)
2	1.9 – 2.6 (.9 - 1.2L)	2.9 – 3.9 (1.3 - 1.8L)
3	2.9 – 3.9 (1.3 - 1.8L)	5.7 – 7.7 (2.6 - 3.5L)

- 5. Turn pump 1 on (P1). To turn the pump on, select the colored box next to P1 and change the 'X' to a check mark. Repeat the process for pumps 2 and 3 (P2 and P3).
- 6. This process will also be used to prime the pumps whenever needed.
- 7. While running pumps check for a good spray pattern out of the respective tips and verify that no parts of the system are leaking.
- 8. While doing these tests the Volume Used on the bottom of the screen will be increasing, this verifies that the flow meter is functioning.
- 9. The DCP button displays your connection signal with the Bluetooth receiver. Green DCP is connected, Yellow DCP is connecting, Red DCP not connected. Pressing MAIN MENU key to return to the initial startup screen.
- 10. If your applicator is RFV equipped (figure 3), the RFV value of the last bale will be displayed next to the last bale moisture reading.

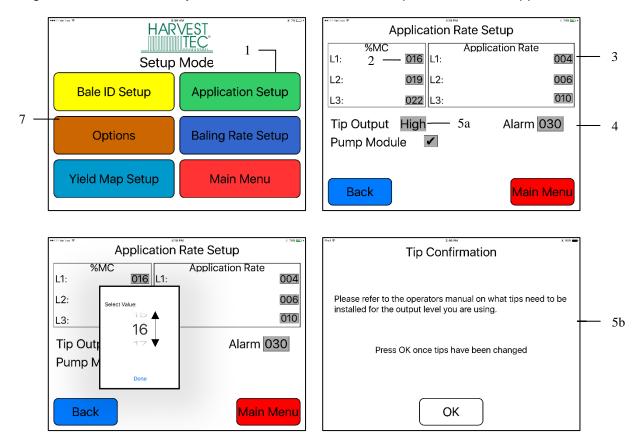
Setting Up the System for initial use with the iPad

In this mode you will setup your initial application rate and baling rate.

*Use the following information for Large Square Balers.

Application Rate

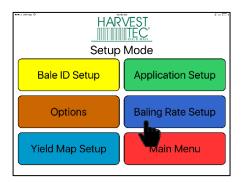
After pushing the SETUP MODE key in the Main Menu screen, the top left screen will appear:

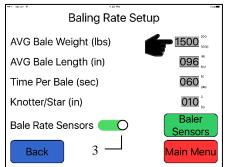


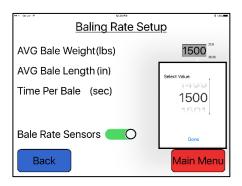
- 1. On the Setup Mode screen press the APPLICATION RATE key. Once selected the SETUP APPLICATION RATE screen will be shown. (Top right picture)
- 2. Press any of the grey number values to the right of %MC to adjust their figures. The scroll pad shown on the bottom left will display. Remember level 1 must be lower than level 2 and level 2 must be lower than level 3. Press Done, when value has been selected. Harvest Tec products recommend set points of 16, 19, and 22 % MC levels. These are preset from the factory.
- 3. To change rate of chemical application, press any of the grey number values to the right of RATE. Remember level 1 must be lower than level 2 and level 2 must be lower than level 3. Press Done, when value has been selected. Harvest Tec products recommend rates of 4, 6, and 10 lbs/ton (2,3,5 L/MT). These rates are preset from the factory. Press Back to return to previous screen. IT IS THE OPERATORS RESPONSIBILITY TO FOLLOW THE RECOMMENDATIONS OF THE PRESERVATIVE. ONLY THE OPERATOR CAN APPLY THE PROPER RATE.
- 4. To set the alarm, press the grey number value and set the level at which you want the alarm to activate. To turn the alarm off, set level above 50.
- 5. Press the grey area next to Tip Output to **cycle between the high and low sets of tips** (5a). Use the correct tip set for the field conditions. The tip confirmation screen will appear (5b). Press OK once tips are changed.
- 6. Next press the BACK key found on the bottom left hand figure of the screen to return to SETUP MODE screen or press MAIN MENU key on bottom right hand figure of the screen to return to opening screen.
- 7. Press OPTIONS to adjust the unit between metric and standard units.

Baling Rate Settings – Large Square Balers

After pushing the SETUP MODE key in the Main Menu screen, the screen on the left will appear:





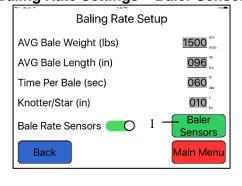


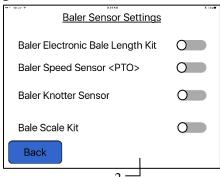
- 1. On the setup mode screen press the BALING RATE key.
- 2. Press the grey number value to the right of AVG Bale Weight (Lbs). To adjust the weight of your bales, the scroll tool shown on the right will display. Scroll through the values to select correct information, press DONE when value has been selected. The information will be saved until updated. Use the same procedure for adjusting bale length and time per bale.
- 3. Large square balers are equipped with Bale Rate Sensors which can be turned ON by sliding the bar to the right as shown above. A green bar indicates that the bale rate sensors are on. While a grey bar means the bale rate sensors are off.

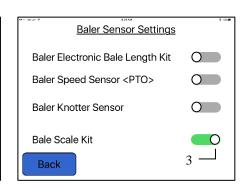
Note: Bale rate sensors are used instead of a fixed time per bale to help determine a ton per hour reading.

4. Press the BACK key found on the bottom left hand figure of the screen to return to SETUP MODE screen or press the MAIN MENU key to return to the opening screen.

Baling Rate Settings – Baler Sensors



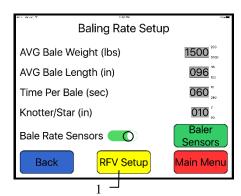


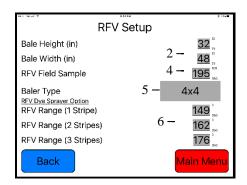


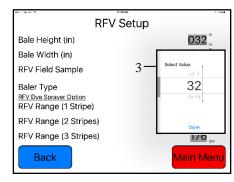
- 1. On the Baling Rate Setup screen select the Baler Sensors Tab.
- 2. Ensure all baler sensors are turned off on the Baler Sensor Settings Tab.
- 3. If using a Bale Scale Kit, turn on that sensor by sliding the tab to the right. A green bar indicates the sensor is turned on.

RFV Setup

Use the information below when your applicator is RFV Equipped. *Only available on large square balers.







- 1. Select the RFV Setup tab on the Baling Rate Setup Screen.
- 2. Select the correct height and width of bale by selecting the grey area. All values can be changed.
- 3. After selecting a value to change, a menu will appear to scroll through and select the correct value and press done to save the information.
- 4. Select the RFV Field Sample value and input the correct value. *This is the RFV value that has been tested by a lab, which is needed to properly measure the RFV value when baling.
- 5. Choose the correct baler type: 3x4, 3x4, 4x4, or 3x4 Krone HDP
- 6. Select your desired RFV ranges from each tip to show either 1 stripe, 2 stripes, or 3 stripes. The preset values from the factory will be set at 150, 170, and 190.
 - *If you are baling hay with an RFV value below the selected 1 stripe value, the system will not spray the bale.

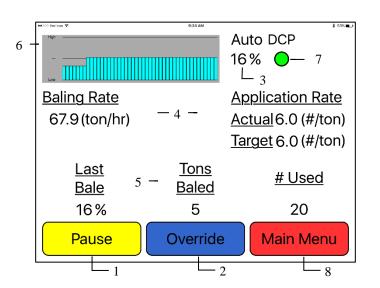
Operation Instructions

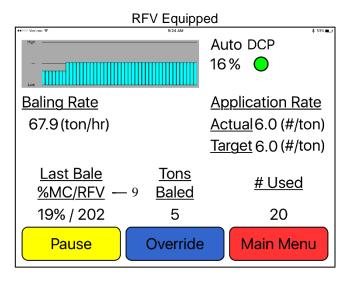
Automatic mode will automatically apply product based on hay moisture content sensed by the moisture sensors and the operator's presets. See SETTING UP SYSTEM FOR INITIAL USE to change any of these settings. Manual mode will apply preservative to the hay at a fixed rate regardless of the moisture content.

*Use the following information Large Square Balers.

Automatic Mode

After pushing the AUTOMATIC MODE key in the Main Menu screen, the following screen will appear:

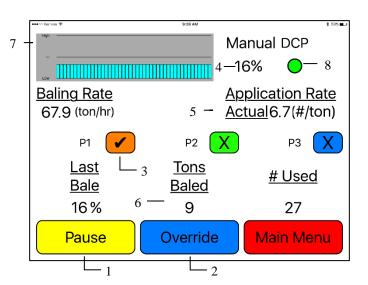


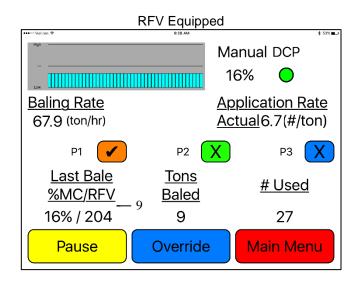


- 1. To pause the unit while in operation select the Pause key.
- 2. Push the OVERRIDE key to turn on all three pumps at the same time for full output of the system. Use this mode when going through a short area of wet crop.
- 3. The moisture content is shown in the upper right hand corner.
- 4. Baling Rate and Application Rate are shown in the middle of the screen. The operator sets the target application rate and baling rate in the setup mode; the actual rate should be within +/- one pound.
- 5. Volume used shown at the bottom of the screen will show accumulated pounds of preservative used on the go. This number will reset at power down, but remains in the job record screen. NOTE: Initial startup requires pressing the New Job key in the Job Records screen in order for Volume Used accumulation to be recorded. This only needs to be done once on initial start-up of system and not every time the system is started for operation. (See JOB RECORDS screen)
- 6. The graph shows the moisture trend from the past 90 seconds in 3 second intervals.
- 7. The DCP button shown when using an iPad displays your connection signal with the Bluetooth receiver. Green DCP is connected, Yellow DCP is connecting, Red DCP not connected.
- 8. Press the MAIN MENU key to return to the opening screen.
- 9. When your applicator is RFV Equipped, the RFV value will be displayed next to the Last Bale moisture reading in the bottom left corner of the screen.

Manual Mode

After pushing the MANUAL MODE key in the Main Menu screen, the following screen will appear:





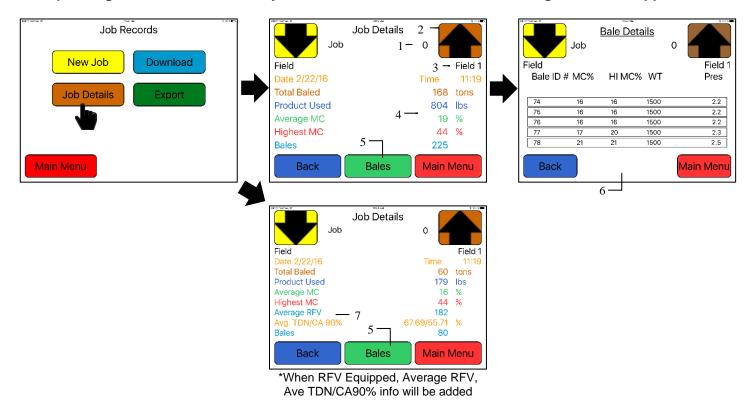
- To pause the unit during operation select the Pause key.
- 2. Push the OVERRIDE key to turn on all three pumps at the same time for full output of the system. Use this mode when going through a short area of wet crop.
- 3. To turn the pump on, select the colored box next to P1 and change the 'X' to a check mark. In Manual Mode (regardless of moisture, baling rate or bale weight) the outputs are fixed rates as follows:

Large Square Balers	Pump	Low Tips Output (Lbs / HR) (L)	High Tips Output (Lbs / HR) (L)
	1	60 (27L)	100 (45L)
	2	100 (45L)	150 (68L)
	3	150 (68L)	300 (136L)

- 4. The moisture content is shown in the upper right hand corner.
- 5. Baling rate and Application rate are shown in the middle of the screen. The output of a pump can be checked by dividing the preset output by the displayed baling rate. For example, if you have the high output tips in a large square baler and are running pump 1, by itself, your output is 100 lbs/hr. Given the baling rate shown on the above screen of 67.9 tons/hr, the application rate should be about 6.7 lbs/ton (100 lbs/hr divided by 6.7 tons/hr). The baling rate is set in the SETUP MODE.
- 6. Volume used shown at the bottom of the screen will show accumulated pounds of preservative used on the go. This number will reset at power down, but remains in the job record screen. NOTE: Initial start-up requires pressing the New Job key in the Job Records screen in order for Volume Used accumulation to be recorded. This only needs to be done once on initial start-up.
- 7. This graph shows the moisture trend from the last 90 seconds of baling (one reading every 3 seconds).
- 8. The DCP button shown displays your connection signal with the Bluetooth receiver. Green DCP is connected, Yellow DCP is connecting, Red DCP not connected.
- 9. When your applicator is RFV Equipped, the RFV value will be displayed next to the Last Bale moisture reading in the bottom left corner of the screen.

Job Records

After pushing the JOB RECORDS key in the Main Menu screen, the following screen will appear:

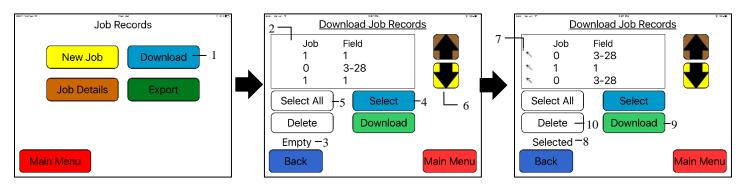


- 1. The job number will be displayed at the top center. The current job being viewed will always read "Job #: 0". Product used and average moisture content will be reset when the NEW JOB key is pressed. The job records screen will store up to 300 jobs allowing access previous jobs by using the up and down arrows.
- 2. Scrolling through previous jobs is done by pressing the UP or Down keys.
- 3. The field name is located under the up arrow.
- 4. The accumulated information from the field will be displayed in the middle of the screen. Every time the NEW JOB key is pressed the accumulated pounds on auto and manual modes will be reset to zero. After 300 jobs have been stored, the next time the NEW JOB key is pressed the system will start over with job one and the old job will be replaced.
- 5. Selecting the Bales button will open the Bale Details Screen.
- 6. The Bale Detail screen will display the individual bale information onto each line. Including Bale ID#, MC% (moisture percentage), HI MC% (high moisture percentage), WT (weight of bale) and Pres (prservative used per bale).
- 7. When your applicator system is RFV Equipped, the Average RFV and Avg. TDN/CA 90% calculations will be added to the job details screen.
- 8. To return the opening screen, press the MAIN MENU key.

NOTE: Initial start-up requires pressing the New Job key in the Job Records screen in order for Volume Used accumulation to be recorded. This only needs to be done once on initial start-up of system and not every time the system is started for operation.

Download Job Records

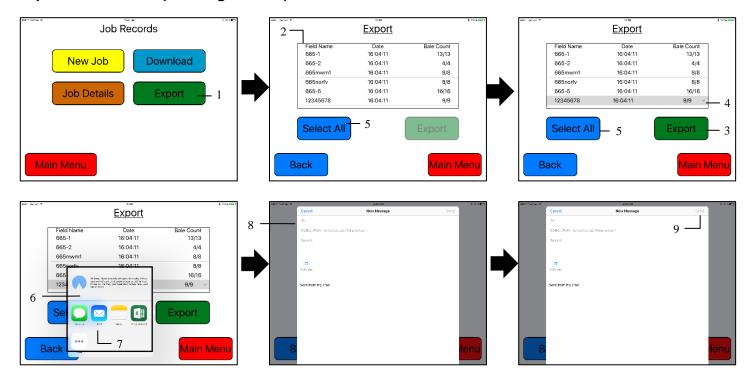
After pushing the JOB RECORDS key in the Main Menu screen, the following screen will appear:



Prior to downloading job records a USB stick will need to be placed into the USB port on the applicator's Dual Channel Processor (DCP). Jobs will not be downloaded if the USB stick is plugged into the monitor.

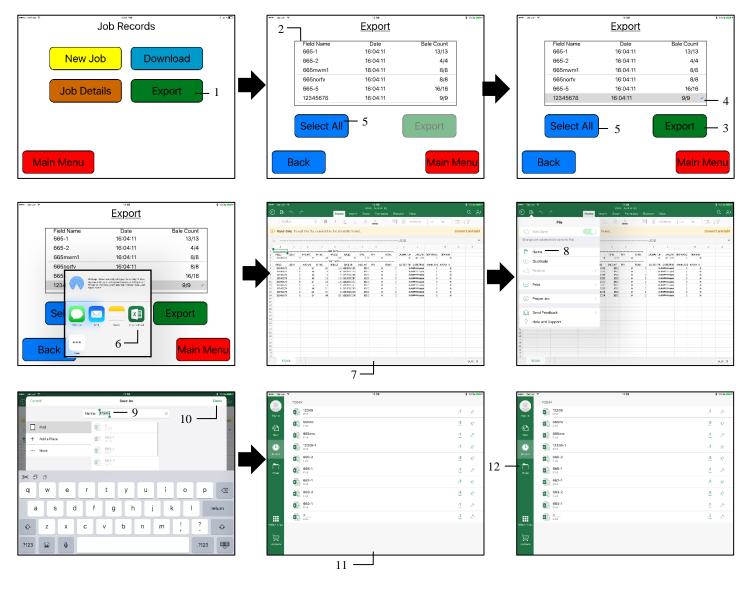
- 1. To download the Job Records to a USB stick, select the Download button
- 2. The list of job records you have created, will display in the middle of the screen
- 3. When no jobs have been selected the status line will read Empty
- 4. To download individual job(s), tap the desired job(s) to be downloaded, or press the Select button
- 5. To select all of the jobs stored, press the Select All Button
- 6. Move through job records by selecting the up or down arrows
- 7. The \(^\) indicates selected jobs to be downloaded
- 8. When chosen jobs have been selected the status line will read Selected
- 9. Press Download button to download job records to USB Stick. The status line will read Downloading
- 10. Delete selected jobs by pressing the Delete button

Export Job Records (emailing records)



- 1. To export the Job Records through an email or save to the iPad select the Export button
- The list of job records you have created, will display in the middle of the screen and the individual bale information will begin to download automatically. The number of bales will grow until equal to the number of bales available to export for each job record.
 - a. For example: When looking at a job record with 62 bales, the bale count will read 0/62 upon initially opening the page. The number will increase until it reads 62/62.
- 3. When all bales have been retrieved, the Export tab will become active
- 4. To export individual job(s), tap the desired job(s) to be exported. The vindicated chosen job(s).
- 5. To select all of the jobs stored to be export, press the Select All Button
- 6. After selecting the Export tab, a small screen will appear with the mail app icon.
 - a. If selecting two or more jobs the email will automatically appear (skipping step 7)
- 7. Select the Mail app to open
- 8. Enter in the desired email address in the (To:) line of the email that will appear.
- 9. Press the send button to email the file to the email you have entered.

Export Job Records (saving to iPad)

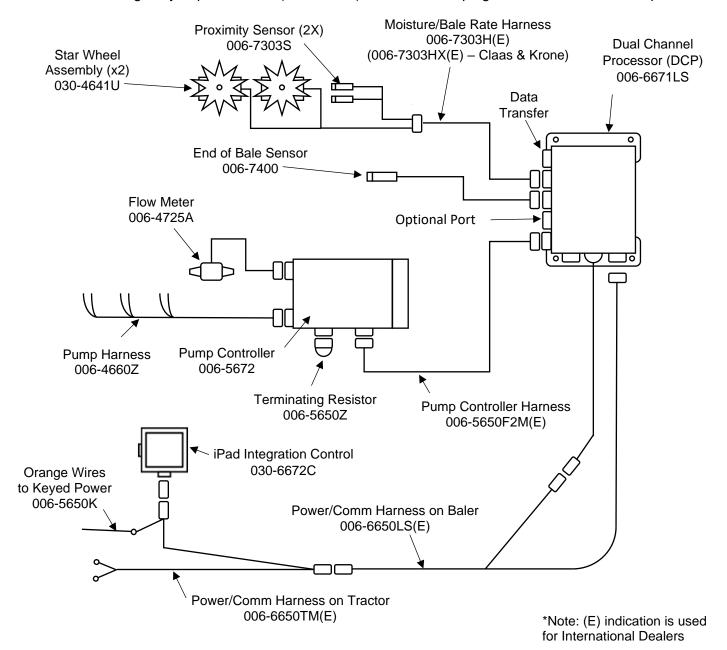


- 1. To export the Job Records through an email or save to the iPad select the Export button
- The list of job records you have created, will display in the middle of the screen and the individual bale information will begin to download automatically. The number of bales will grow until equal to the number of bales available to export for each job record.
 - a. For example: When looking at a job record with 62 bales, the bale count will read 0/62 upon initially opening the page. The number will increase until it reads 62/62.
- 3. When all bales have been retrieved, the Export tab will become active
- 4. To export individual job(s), tap the desired job(s) to be exported. The

 ✓ indicated chosen job(s).
- 5. To select all of the jobs stored to be export, press the Select All Button
- 6. After selecting the Export tab, a small screen will appear with the Excel app icon.
 - a. It is recommended to download the Excel App to properly view the job records
 - i. Only one job can be selected at a time to view on iPad
- 7. After the Excel app has been selected the job record spreadsheet will open
 - a. The iPad can only view one job at a time
- 8. To save the job, select Name from the drop down tab
- Enter your desired file name
- 10. Press the save button after entering your file name
- 11. The list of saved files will appear
- 12. You can also view the files by selecting the Open tab, when opening the Excel app

Wiring Diagram

- 1. The Baler Power/Communication Harness (006-6650LS(E)) will attach to the open port of the Tractor Harness (006-6650TM(E)) and run back to the Dual Channel Processor (006-6671LS). Connect the large plug of the Baler Power/Communication Harness (006-6650LS) to the bottom (shorter side) of the DCP.
- 2. Install green terminator (006-5650Z) to the port labeled **Modular Port** on the Pump Controller (006-5672).
- 3. Attach moisture and bale rate harness 006-7303H(E) (Claas & Krone kits 006-7303HX(E)) as well as the end of bale harness (006-7400) to the DCP (006-6671LS).
- 4. Attach the Pump Control Harness (006-5650F2M(E)) between the Pump Controller (006-5672) and the DCP (006-6671LS).
- 5. Connect the orange wires and attach the plug to the tractor's ISOBUS port.
- 6. If using the optional ISOBUS connector (006-6670A) connect the end to the Communication Harness (006-6650TM(E)) in place of the iPad Integration Control shown below (030-6672C).
- 7. Connect the orange keyed power wires (006-5650K) and attach the plug to the tractor's ISOBUS port.



Maintenance

• If you are unsure how to perform any of the maintenance steps have your local authorized dealer perform the tasks.

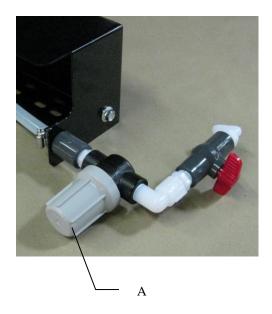
Maintenance Schedule

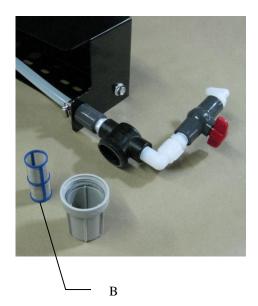
	Daily	10 hrs	400 hrs	Weekly	Monthly	Season
Diagnostics	Х					X
Filter bowl cleaning		Χ				X
Tips & tip screen cleaning		Χ				X
Tank lid cleaning		Χ				X
Dielectric grease connections					Х	X
Rebuild pumps			X			
Battery connections				Х		Χ
Check valves			Х			
Visually inspect hoses				Х		Χ

Diagnostics: Follow the instructions in this manual to run the Diagnostics mode.

Filter bowl cleaning: The filter bowl is located in front of the applicators tank and is connected to the ball valve. Before cleaning the filter bowl all personal protective equipment must be worn (Face shield or goggles, chemically resistant apron, boots, and gloves).

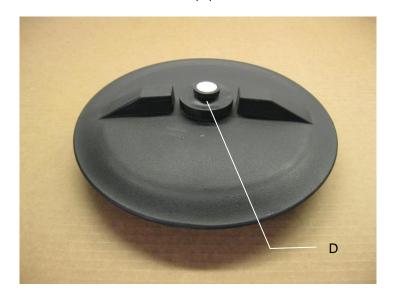
Verify that the ball valve located next to the pump is turned off. Locate the filter bowl on the side of the pump manifold (A). Unscrew the bottom section of the filter bowl and remove the strainer. (B) Clean off any debris and soak in warm water with a mild soap if necessary. Once the screen is clean reinstall by following the directions in reverse.





Tank Lid Cleaning: Before cleaning the tank lid all personal protective equipment must be worn (Face shield or goggles, chemically resistant apron, boots, and gloves).

The tank lid is located on the top of the tank. Use the supplied handle on the tank to secure your person and use the other hand to remove any debris from the top of the tank. Unscrew the tank lid and bring down ground level. Use compressed air clean out the tank breather (D). Once the breather is cleaned reinstall the cover.



Dielectric Grease Connections: Disconnect all harnesses on the applicator, clean the connections, and repack with dielectric grease.

Rebuild Pumps: If Diagnostic or Manual mode show that the pumps are running lower than normal, a pump rebuild may be necessary. To do this rebuild the pump must be removed from the pump manifold. Pump rebuild is part no. 007-4581. A service pack that includes pump rebuilds and check valves is available from your local dealer.

Verify that the ball valve is turned off. Before working around the pumps all personal protective equipment must be worn (Face shield or goggles, chemically resistant apron, boots, and gloves). Remove pump from manifold. Follow rebuild instructions supplied with pump rebuild kit. Reinstall after rebuild is complete.

Battery Connections: Follow the batteries safety warnings and clean the battery connections. If the connections cannot be cleaned, replace harness.

Check Valves: Before servicing the check valves all personal protective equipment must be worn (Face shield or goggles, chemically resistant apron, boots, and gloves).

Verify the ball valve is turned off before service the check valves. Replace the intake check valves by the pumps (002-4566F) and the discharge check valves by the tip (004-1207VB).

Miscellaneous Maintenance:

- 1. Depending on the product being used, the system may need to be flushed with water at a regular interval (consult with manufacturer of the chemical.) If Harvest Tec product is being used, flushing is not necessary.
- 2. Although the pump can run dry, extended operation of a dry pump will increase wear. Watch the preservative level in the tank.
- 3. If you are using bacterial inoculants, flush your system daily after every use.

Winter Storage

- 1. Thoroughly flush the system with water.
- 2. Remove the filter bowl and run dry until the water has cleared out of the intake side.
- 3. Remove the red plug from the bottom of the pump, drain, and run the pump for 30 seconds or until dry.
- 4. Drain all lines on the outlet side.
- 5. Never use oils or alcohol based anti-freeze in the system.
- 6. For spring start-up, if the pump is frozen, turn off the power immediately to avoid burning the motor out or blowing a fuse. The pump head can be disassembled and freed or rebuilt in most cases. Check the fuses after the pump has been freed.
- 7. Disconnect power from the Precision Information Processor.
- 8. Remove display from tractor and store in a warm, dry place.

Status Alerts

Two Status Alerts will appear on the Auto and Manual mode screens when the Job Records are approaching, or full of records.

Status Alert "Bale Records: Less than 1K remaining". The system is now approaching the maximum amount of records that can be saved. When this code appears, download and delete jobs in the Job Records menu. Follow the instructions in Job Records to accomplish this.

Status Alert "Bale Records failed – Memory Full". The system will no longer accept any new data until jobs in the Job Records menu are downloaded and deleted. Follow the instructions in Job Records to accomplish.

Pin Outs

Power/Comm Harness 0	06-6650TM(E) at Hitch
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Pin 1	Red	+12V Power to TSD
Pin 2	Red	+12V Power to DCP

Pin 3 Orange Keyed Power

Pin 4 Gray Shield
Pin 5 Green HT Can Low
Pin 6 Yellow HT Can Hi
Pin 7 Orange Can1 Hi

Pin 8 Black Ground from TSD Pin 9 Black Ground from DCP

Pin 10 Blue Can1 Low

Power/Comm Harness 006-6650LS2(E) at Hitch

Pin 1	Red	+12V Power to TSD
Pin 2	Red	+12V Power to DCP

Pin 3 Orange Keyed Power

Pin 4 Gray Shield
Pin 5 Green HT Can Low
Pin 6 Yellow HT Can Hi
Pin 7 Orange Can1 Hi

Pin 8 Black Ground from TSD Pin 9 Black Ground from DCP

Pin 10 Blue Can1 Low

Bluetooth Receiver on Harness 006-6650TM(E)

Pin 1 Red +12V Power from DCP
Pin 2 Black Ground from TSD
Pin 3 Yellow HT Can Low
Pin 4 Gray Shield
Pin 5 Green HT Can Hi
Pin 6 Orange Can1 Hi
Pin 7 Blue Can1 Low

ISOBUS Plug Baler Side

Pin 1 N/A Pin 2 N/A

Pin 3 120 OHM with Pin 5

Pin 4 N/A

Pin 5 120 OHM with Pin 3

Pin 6 Orange Can1 Hi Pin 7 Blue Can1 Low

ISOBUS Plug Tractor Side

Pin 1 N/A Pin 2 N/A

Pin 3 +12V Keyed Tractor Power

Pin 4 N/A

Pin 5

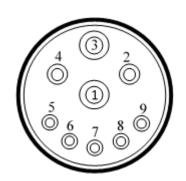
Pin 6 N/A
Pin 7 N/A
Pin 8 Orange Can1 Hi
Pin 9 Blue Can1 Low











Pin Outs (continued)

Main Power Connector on DCP

Pin 1 Red +12V Power from tractor
Pin 2 Black Ground from tractor

Pin 3 Orange Keyed power

Star Wheel and Bale Rate Sensor connector on DCP

Pin 1 Blue +12V Power Pin 2 Orange Ground

Pin 3 Black Signal for sensor 1 Pin 4 White Signal for sensor 2

Pin 5 N/A Pin 6 N/A Pin 7 N/A

Pin 8 Violet Star wheel input 1 Pin 9 Brown Star wheel input 2

End of Bale sensor on DCP

Pin 1 Brown Sensor Power
Pin 2 Blue Sensor Ground

Pin 3 N/A

Pin 4 Black Signal from Sensor

Pump Connection Colors

Pin 1 Black with Orange Stripe Pump 1 Ground
Pin 2 Black with Green Stripe Pump 2 Ground
Pin 3 Black with Yellow Stripe Pump 3 Ground

Pin 4 N/A

Pin 5 Orange with Black Stripe Pump 1 Positive
Pin 6 Green with Black Stripe Pump 2 Positive
Pin 7 Yellow with Black Stripe Pump 3 Positive

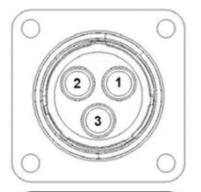
006-6650VAJ Harness to Baler Plug (John Deere Integration)

Pin A N/A

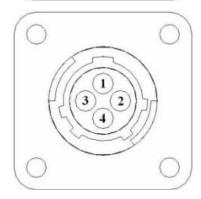
Pin B Red TBC Power

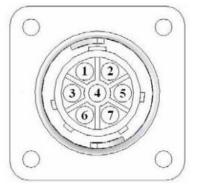
Pin C N/A

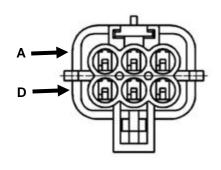
Pin D Gray TBC Ground
Pin E Orange Can1 Hi
Pin F Blue Can1 Low











Pin Outs (continued)

Pump Communication Plug on DCP

Pin 1	Red	+12V Can
Pin 2	Red	+12V Power
Pin 3	Gray	Shield

Pin 4 Green Comm Channel OH
Pin 5 Yellow Comm Channel OL

Pin 6 Blue Comm Channel IH
Pin 7 Orange Comm Channel IL
Pin 8 Black Can Ground
Pin 9 Black Power Ground

Pin 10 N/A

Flow Meter Connection on Pump Controller

Pin 1 White 5 - 12V (+) Supply

Pin 2 Green Ground
Pin 3 Brown Signal
Pin 4 Black Shield

Connector for Crop Eyes on DCP

Pin 1 Red +12V Power
Pin 2 Black Ground
Pin 3 White Signal

Pin 4 N/A

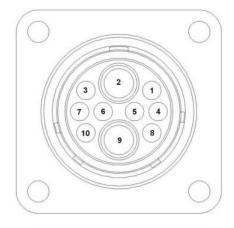
<u>006-6650VAK Harness to Baler (Krone Integration)</u>

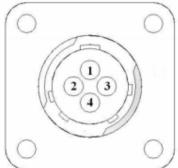
Pin 1 Red Power
Pin 2 Orange CAN1_H
Pin 3 Black RTN
Pin 4 Blue CAN1_L

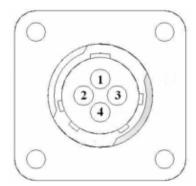
Pump Communication Plug on DCP

Pin 1 Red +12V Can
Pin 2 Black +12V Power
Pin 3 Yellow Shield

Pin 4 Gray Comm Channel OH
Pin 5 Green Comm Channel OL
Pin 6 Orange Comm Channel IH
Pin 7 Blue Comm Channel IL











Common Questions

1. How do I turn the system on/off?

Turn the key in the tractor to the ON/OFF position.

2. How to get in the LBS/TON, MC%, and TONS/HR menus?

In the **Main Menu** press the **Setup Mode** option. From this screen you can change your application rates and how much product is applied. See the section on **Setting Up For Initial Use** for a detailed explanation of this process.

3. The unit is stuck in the MC% screen.

In the MC% screen, level 1 must be less than level 2, and level 2 must be less than level 3. For example, if level 1 is set at 16, level 2 must be set at 17 or higher, and level 3 must be set higher than level 2.

4. How does Override work?

Override turns on all three pumps at full output. The pumps will remain at full output until the operator turns these pumps off by pressing the **Override** key again.

5. The flow meter reading is more or less than the programmed level set in the box.

Some variation in flow meter readings compared to the programmed set point is normal due to factory tolerances on the pump motors as well as varying tractor voltages inputted to the control box. The flow meter reading is an accurate measure of how much product is actually being applied. The set points then will need to be adjusted if you want to attain a different flow meter reading.

6. Why don't all the pumps turn on even at higher application rates?

The selections of what pumps turn on when are automatically controlled by the control box's flow rate look up chart. Thus, not all the pumps turn on at once and the combination of what pumps turn on when is automatically controlled by the software. If you want to make sure all three pumps are working, go to the Diagnostics screen and run pump outputs.

7. The moisture content displays "LO" or "HI" all the time.

When the moisture content display does not change frequently while baling, there is likely a faulty star wheel connection. One of the first places to check is inside the white star wheel block. Check to see if the electronic swivel is in the star wheel shaft and check to see that the star wheel shaft is not working out of the block. Also, check all star wheel wires and connectors to see if there is a continuity or grounding problem.

8. Should the battery connections be removed before jump starting or charging a battery? Yes. Anytime the tractor will have voltage going up rapidly the connections should be removed.

9. How can I turn the optional hay indicators Crop Eyes On/Off from the cab? From the Setup Mode screen press Options. Press the On/Off underlined area next to Crop Eyes.

10. Bale scale does not give a consistent reading.

Baling on rough terrain or hills can cause the scale to give an inaccurate reading. Turn Bale Scale option OFF in the Bale Rate Screen and use AVG Bale Weight reading as weight of bale.

11. What do the lights on the 030-6672B indicate?

Red Light – The Bluetooth receiver has power. Green Light – When the proper active connection is selected in the Hay App menu, the green light will indicate connection with the iPad.

Troubleshooting

Problem	Possible cause	Solution
Pump will not run.	No voltage to DCP or Pump	Check for short, low voltage, and
·	controller.	replace fuse(s) if necessary.
	Pump locked up.	2. Clean or rebuild pump if motor is OK.
	3. Damaged wire.	Repair damaged wire.
	4. Fuse blown on Pump controller.	Replace fuse and check pump for
		short in wire or locked motor.
Pump runs but will not prime.	1. Air leak in intake.	Tighten fittings on intake side.
	Clogged intake.	2. Clean.
	3. Restricted outlet.	3. Check and clean tips.
	4. Check valve on the outlet is	4. Clean or repair check valve.
	stuck closed. 5. Dirt inside pump.	5. Replace pump check valve.
Pump does not develop enough output.	Air leaks or clogs on inlet side.	Tighten or clean filter bowl assembly.
Fulfip does not develop enough output.	Pump worn or dirty.	Rebuild pump.
Moisture reading errors (high or low)	Wire disconnected or bad	Reconnect wire.
Worstare reading errors (riight of low)	connection between star wheels	1. Reconnect wire.
	and DCP	
	Low power supply to DCP	2. Check voltage at box. (Min of 12 volts
		required.) See Diagnostics section.
	3. Wet hay over 75% moisture	, ,
	4. Ground contact with one or both	4. Reconnect.
	star wheels and baler mounted	
	processor.	
	5. Short in wire between star	5. Replace wire.
	wheels and DCP.	_
	6. Check hay with hand tester to	Contact Harvest Tec if conditions
NACCE AND REAL PROPERTY.	verify.	persist.
Moisture readings erratic.	1. Test bales with hand tester to	
	verify that cab monitor has more variation than hand tester.	
	Check all wiring connections for	Apply dielectric grease to all
	corrosion or poor contact.	connections.
	Check power supply at tractor.	Install voltage surge protection on
	Voltage should be constant 12-14v	tractors alternator.
Flow meter readings do not match up		
with product usage.		
Product is less than actual product	1. Voltage supplied to meter is less	1. Check for a min of 6 volts supplied at
used.	than 6 volts.	Pump controller.
	2. Wiring short in signal to baler	2. Inspect wire and replace if necessary.
	mounted processor.	
	3. Clog in meter.	3. Back flush with water, NOT AIR
	4. Using product other than	4. Catch and weigh product to check
Draduat about is more than actual	Harvest Tec	outputs.
Product shown is more than actual product used.	High voltage supplied to the meter.	Check voltage at Pump controller. Max of 18 volts.
product docu.	Light interference with meter.	Reflection into meter can cause a
	2. Light interference with meter.	high reading. Move meter or protect
		from sunlight.
	3. Air leak in intake.	3. Look for air bubbles in line. Replace
		line or other defective area that is
		allowing air into the system.
	Using product other than	Catch and weigh product to check
	Harvest Tec	outputs.
System leaks product after shut down.	Dirty or defective check valves.	Clean or Replace.
Terminal reads under or over power.	Verify with multi-meter actual	Clean connections and make sure
	voltage. Voltage range should be	applicator is hooked to battery. See
	between 12-14 volts.	Diagnostics section of manual.

System does not pause at the end of a row.	 Short in cable. Damaged sensor. Bad alignment of sensors 	 Replace cable. Replace sensor Check 474 manual for alignment 		
Bale rate displays zero.	 Bale rate sensors are reversed. Short in cable. Damaged sensor. 	instructions 1. Switch the sensors next to the star wheel. 2. Replace cable. 3. Replace sensor.		
Display says PAC error	 The DCP and Pump controller are not communicating. Broke connection between the display and DCP or Pump control and DCP. 	Check all connections at DCP and Pump controller including terminating resistors. Check, clean, and tighten connections.		
Bluetooth Receiver lights will not illuminate	 Bluetooth receiver not connected Harness disconnected Low power 	Check connections and voltage. Minimum 12.5V needed.		
	Blinking Lights – System is waiting for the processor to connect, which coutake up to 35 seconds. Red Light – The Bluetooth receiver has power Green Light – When the proper active connection is selected in the Hay Apmenu, the green light will indicate connection with the iPad.			

iPad Troubleshooting

iPad Symptom	Troubleshooting
iPad won't turn on	- Turn your iPad off and on. Press and hold the
	Sleep/Wake button for a few seconds until a red slider
	appears; then slide it. Press and hold the Sleep/Wake
	button to turn on againReset your iPad. Press the "Sleep/Wake" button and
	the "Home" button simultaneously for at least 10
	seconds until the Apple logo appears on the screen.
	This reset will not damage your files.
	You may have a drained battery. Plug your iPad into
	your computer or AC adapter and see if anything
	happens. Ideally your iPad will recognize it has been connected to a power source and charge its battery. If it
	will no longer charge, the battery must be swapped with
	a replacement battery. Battery level is display in top
	right corner of iPad.
iPad won't connect to Bluetooth accessory	-Make sure that your Bluetooth accessory and iOS
	device are close to each other when connectingMake sure that your Bluetooth accessory is on and fully
	charged or connected to power. If it uses batteries, test
	them to see if they need to be replaced.
	-Restart your Bluetooth receiver, by removing power
	and reconnecting after 30 seconds.
	-Make sure that you have at least a 3 rd generation iPad with iOS8 or greater operating system on your iPad
	-On your iPad, go to Settings > Bluetooth and make
	sure that Bluetooth is on. If you can't turn Bluetooth on
	or you see a spinning gear, restart your iPad
	-Unpair the Bluetooth accessory, put the accessory back
	in discovery mode, then pair and connect it again. By tapping on its name in the Bluetooth accessories tab
	and then Forget this Device. In settings, tap on a
	device's name, then Unpair.
iPad touchscreen is slow or does not respond	-It may be that your screen is dirty. Try cleaning your
	screen. To do this, unplug everything, turn off iPad then
	with a very soft, lint-free and slightly damp cloth gently wipe the screen. Do NOT use window cleaners and
	paper towels.
	-If you have any screen protector sheet, try removing it.
iPad is not charging or is slow to charge	-In order to charge your iPad you can try either
	connecting your iPad to a power outlet or connecting to
	a USB 2.0 port on a computer. However, note that computers generally don't supply enough power to their
	USB ports to be able to charge an iPad. When this
	happens, a "Not Charging" message will appear.
How can I unlock my iPad if I forgot the passcode	If you cannot remember the passcode, you will need
	to restore your device using the computer with which
	you last synced it. This allows you to reset your passcode and resync the data from the device (or
	restore from a backup). If you restore on a different
	computer that was never synced with the device, you
	will be able to unlock the device for use and remove the
How do I send in my iPad for service?	passcode, but your <i>data will not be present.</i> Refer to your iPad owner's manual or contact apple
HOW GO I Sella III IIIY II au IOI SCIVICE:	customer service.
	DO NOT SEND iPad TO HARVEST TEC.
=	Owner's Manual or contact Apple Directly
*Harvest Tec Does	s Not Service iPads *

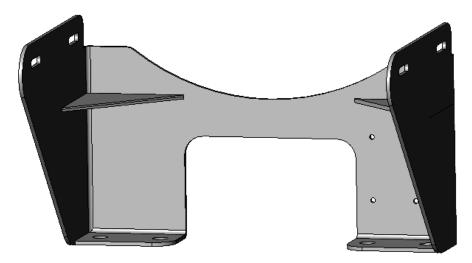
Parts Breakdown Tank, Saddle & Legs 100 Gallon



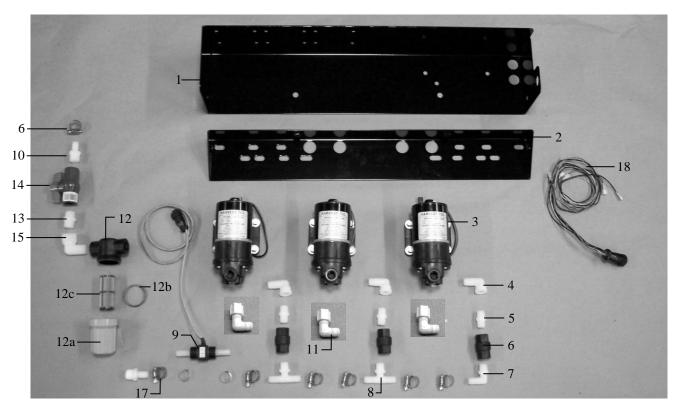
Ref	Description	Part#	<u>Qty</u>	<u>Ref</u>	Description	Part#	<u>Qty</u>
1	Tank Lid 6"	005-9022C	1	5	3/4" Tank Fitting	005-9100	1
2	Tank – 100 Gal	005-9206	1	NP	3/4"x1/2" Elbow	003-EL3412	1
3	Tank Straps	001-4402	2	NP	Cap Gasket	005-9022CG	1
4	Tank Saddle	001-6706A	1		•		

Claas 5300 Saddle Legs (x2)

Part: 001-6706Q

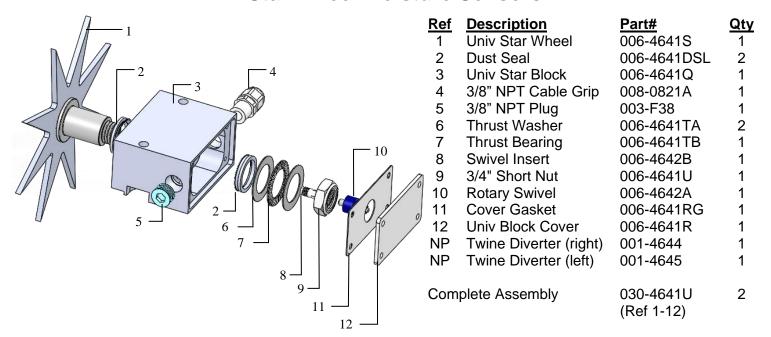


Parts Breakdown for Pump Manifold

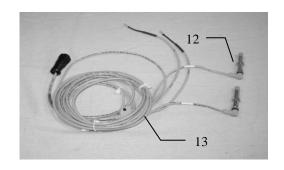


Ref#	Description	Part#	Qty
1	Pump plate	001-4646D	1
2	Mounting Bracket	001-4646C	1
3	Pump	007-4120H	3
4	Street elbow fitting	003-SE38	3
5	Nipple fitting	003-M3838	3
6	Check valve	002-4566F	3
7	Elbow fitting	003-EL3812	1
8	Tee fitting	003-T3812HB	2
9	Flow meter assembly	006-4725A	1
10	Straight fitting	003-A1212	2
11	Jaco fitting	003-JEL1238	3
12	Filter bowl assembly	002-4315-100	1
12a	Filter bowl only	002-4315F	1
12b	Filter bowl gasket	002-4315D	1
12c	Filter bowl screen	002-4315A	1
13	Nipple fitting	003-M1212	1
14	Ball valve	002-2212	1
15	Street elbow fitting	003-SE12	1
16	Hose clamp	003-9003	7
17	Hose clamp (Flow Meter)	003-9005	2
18	Pump Cable	006-4660Z	1
NP	Elbow	003-EL1212	1
NP	Pump rebuild kit (1 per pump)	007-4581	1
	Complete Pump Assembly	030-4646	

Star Wheel Moisture Sensors



Bale Rate Sensors & Harness



Ref	<u>Description</u>	Part#	Qty
12	Bale rate sensor	006-7303S	2
13	Moisture and bale rate harness	006-7303HX(E)	1

*Note: (E) indication is used for International Dealers

Parts Breakdown for 695 Series Control and Harnesses Dual Channel Processor (DCP)



<u>Ref</u>	<u>Description</u>	Part Number	Qty
1	Modular Power/Comm 15 FT Harness	006-5650F2M(E)	1
2	Dust Plugs	006-5651PLUGS	1
3	DCP Baler Harness 15 FT	006-6650LS	1
4	Key Switch Wire	006-5650K	1
5	EOB Extension for CNH BB Series	006-7400BBEXT	1
6	Terminating Connector 600 Series	006-5650Z	1
7	End of Bale Sensor Bracket	001-4648	1
8	End of Bale Sensor 600 Series	006-7400	1
9	DCP Shield/Cover	001-5650X	1
10	DCP Main Control LS 600 AUTO	006-6671LS	1
11	Pump Controller	006-5672	1
12	DCP Tractor Harness	006-6650TM(E)	1

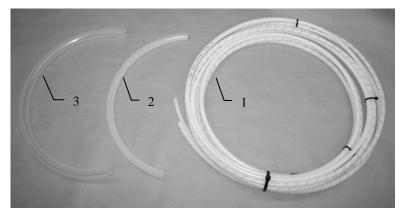
*Note: (E) indication is used for International Dealers

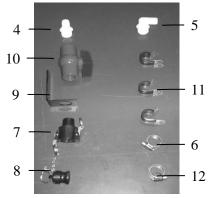
iPad Integration Control



Part #: 030-6672C

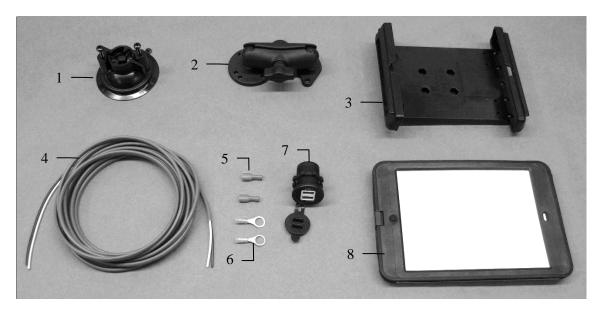
Parts Breakdown for Hose and Drain Fill Line





Ref 1	<u>Description</u> Triple weld hose (pumps to tips)	<u>Part#</u> 002-9016 002-9016B 002-9016G	Qty 15ft 15ft 15ft	Ref 7 8 9	<u>Description</u> Female Coupler Male Coupler Valve Holder	Part# 002-2204A 002-2205G 001-6702H	Qty 1 1 1
	Three hose assembly	030-9016RB	1	10	Ball valve	002-2200	1
2	1/2" Hose (tank to filter)	002-9001	20ft	11	Jiffy Clip	008-9009	7
3	3/4" Hose (tank to drain/fill valve)	002-9002	10ft	12	Hose Clamp #6	003-9003	2
4	Straight Fitting	003-A3434	1		·		
5	Elbow	003-EL3434	1				
6	Hose Clamps #10	003-9004	2				

Optional iPad Mini Mounting Kit (030-2014MK)



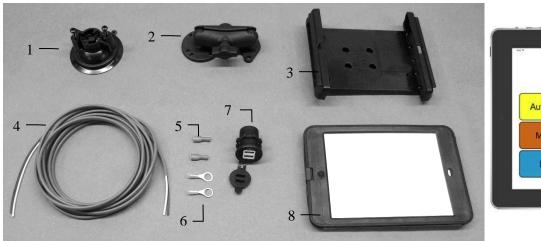
Ref	<u>Description</u>	Part #	Qty
1	Suction cup mount	001-2012SCM	1
2	Ram mount	001-2012H	1
3	iPad Mini spring load cradle (Mini 4)	001-2012SLC	1
4	16 gauge power wire	006-4723P	1
5	Female spade connector	Hardware	2
6	Eye loop connector	Hardware	2
7	iPad Mini Charger 12V	001-2012P	1
8	iPad Mini 4 case	001-2012C4	1
NP	4 amp fuse	Hardware	1
	Mounting Kit Assembly	030-2014MK (Includes All Parts)	

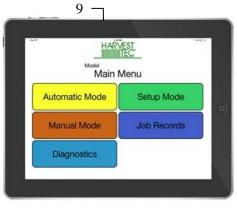
Installation Instructions

- 1. Identify 12V power source for wires to connect.
 - a. Eye loops included if wiring directly to the battery is desired.
 - b. Test for key power source if preferred to have power to the USB shut off with the key.
- 2. Once power source is identified, cut wires to desired length.
- 3. Crimp the two supplied quick connectors onto each the white and black wire.
- 4. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
- 5. The wires will then be hooked to the designated terminals on the bottom of the USB plug
- 6. Drill a 1 1/8" hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
- 7. Feed the wires through the mounting hole.
- 8. If using the round plastic nut to secure plug in place, slide the nut back over the wiring before connecting the wires to powered source.
- 9. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
- 10. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
- 11. Once connected, hook a USB charging cord into the plug and connect a mobile device/tablet to ensure the plug is operating as you wish (key power working properly if necessary).

NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

Optional iPad Display Kit (030-4670DK)





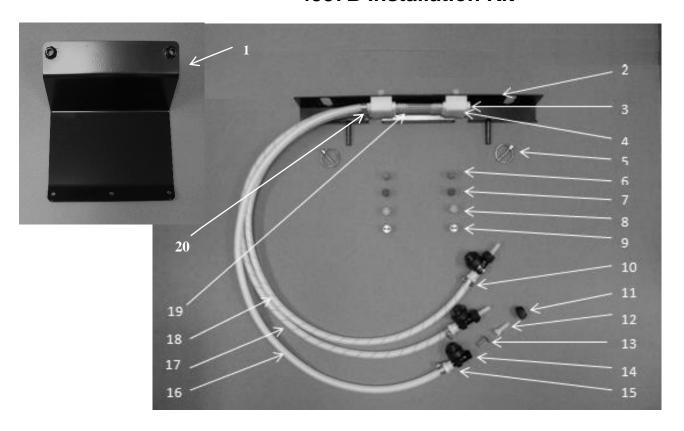
<u>Ref</u>	<u>Description</u>	Part #	Qty	<u>Ref</u>	<u>Description</u>	Part #	Qty
1	Suction cup mount	001-2012SCM	1	7	iPad Mini Charger 12V	001-2012P	1
2	Ram mount	001-2012H	1	8	iPad Mini 4 case	001-2012C4	1
3	iPad Mini spring load cradle (Mini 4)	001-2012SLC	1	9	iPad Mini 4	006-4670IP	1
4	16 gauge power wire	006-4723P	1	NP	4 amp fuse	Hardware	1
5	Female spade connector	Hardware	2		•		
6	Eye loop connector	Hardware	2		Mounting Kit Assembly	030-4670DK	
						(Includes All Pa	rts)

Installation Instructions

- 1. Identify 12V power source for wires to connect.
 - a. Eye loops included if wiring directly to the battery is desired.
 - b. Test for key power source if preferred to have power to the USB shut off with the key.
- 2. Once power source is identified, cut wires to desired length.
- 3. Crimp the two supplied quick connectors onto the white and black wire.
- 4. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
- 5. The wires will then be hooked to the designated terminals on the bottom of the USB plug
- 6. Drill a 1 1/8" hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
- 7. Feed the wires through the mounting hole.
- 8. If using the round plastic nut to secure plug in place, slide the nut back over the wiring before connecting the wires to powered source.
- 9. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
- 10. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
- 11. Once connected, hook a USB charging cord into the plug and connect a mobile device/tablet to ensure the plug is operating as you wish (key power working properly if necessary).

NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

4537B Installation Kit



<u>Ref</u>	<u>Description</u>	Part Number	<u>Oty</u>	<u>Ref</u>	<u>Description</u>	Part Number	<u>Oty</u>
1	Holder	001-4435L	1	11	Cap	004-4723	3
2	Shield	001-4435NSX	1	12	Fitting	003-A1414VB	3
3	Fitting	003-F14	3	13	Strainer	004-1203-100	3
4	Manifold Block	001-4435NSB	2	14	Check Valve	004-1207VB	3
5	Lynch Pin	008-4576	2	15	Fitting	003-A1414F	3
6	Tip-Red	004-T8003-PT	2	16	Clear Tubing-1/4"	002-9016	3ft
7	Tip-Brown	004-T80015-PT	2	17	Blue Stripe Tubing	002-9016B	3ft
8	Tip-Pink	004-T8001-PT	2	18	Green Stripe Tubing	002-9016G	3ft
9	Tip-Stainless	004-T800067-SS	2	19	EVA-1/4"	002-9006	3ft
10	Hose Clamp	003-9002	15	20	Fitting	003-A1414	9
	_			NP	Mini Plano Box	008-9001	1

Harvest Tec LLC. Warranty and Liability Agreement

Harvest Tec, LLC. will repair or replace components that are found to be defective within 12 months from the date of manufacture. Under no circumstances does this warranty cover any components which in the opinion of Harvest Tec, LLC. have been subjected to negligent use, misuse, alteration, accident, or if repairs have been made with parts other than those manufactured and obtainable from Harvest Tec, LLC.

Our obligation under this warranty is limited to repairing or replacing free of charge to the original purchaser any part that in our judgment shows evidence of defective or improper workmanship, provided the part is returned to Harvest Tec, LLC. within 30 days of the failure. If it is determined that a non-Harvest Tec branded hay preservative has been used inside the Harvest Tec applicator system where the failure occurred, then Harvest Tec reserves the right to deny the warranty request at their discretion. Parts must be returned through the selling dealer and distributor, transportation charges prepaid.

This warranty shall not be interpreted to render Harvest Tec, LLC. liable for injury or damages of any kind, direct, consequential, or contingent, to persons or property. Furthermore, this warranty does not extend to loss of crop, losses caused by delays or any expense prospective profits or for any other reason. Harvest Tec, LLC. shall not be liable for any recovery greater in amount than the cost or repair of defects in workmanship.

There are no warranties, either expressed or implied, of merchantability or fitness for particular purpose intended or fitness for any other reason.

This warranty cannot guarantee that existing conditions beyond the control of Harvest Tec, LLC. will not affect our ability to obtain materials or manufacture necessary replacement parts.

Harvest Tec, LLC. reserves the right to make design changes, improve design, or change specifications, at any time without any contingent obligation to purchasers of machines and parts previously sold.

Revised 4/17

HARVEST TEC, LLC. P.O. BOX 63 2821 HARVEY STREET HUDSON, WI 54016

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