Operation Manual

Model 596

100 & 110 Gallon Preservative Applicator





DECLARATION OF INCORPORATION FOR A PARTIALLY COMPLETED MACHINE: Harvest Tec Hay Preservative Application System.

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

MACHINE DESCRIPTION: An implement mounted machine that applies inoculants to forage crops.

DECLARATION OF APPLICATION OF ESSENTIAL REQUIREMENTS OF THE DIRECTIVE 2006/42/ EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 17, MAY, 2006 AND OTHER RELEVANT EU DIRECTIVES: The Harvest Tec Hay Preservative Application System conforms with the Directive and other relevant EU directives.

SERVICE DUTY OF THE PARTIALLY COMPLETED MACHINE: The Harvest Tec Hay Preservative Application System will only be put into service after installed on a forage harvester that has been declared to conform with the Directive.

Noise from the Harvest Hay Tec Preservative Application System does not exceed 70 dB (A).

MANUFACTURERS NAME PLATE

| Harvest Tec Inc. Manufactured at and correspondence to: 2821 Harvey Street Hudson, WI 54016 USA | \mathcal{C} |
|--|---------------|
| Model | |
| Build Date | |
| Serial No. | |

PERSON AUTHORIZED TO PROVIDE INFORMATION ON THE MACHINE AND WHO MAKES THIS DECLARATION:

Jeffery S. Roberts, President, Harvest Tec, LLC.

ffn8 Kolus

Signed in Hudson, WI, USA on May 21, 2011

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Warranty statement

<u>Introduction</u>

Congratulations on purchasing a Harvest Tec Model 596 applicator. This 596 applicator is designed to apply a buffered propionic acid on to the forage crop as it is being baled. The 596 applicator will adjust the rates based on the moisture and tonnage of the crop being harvested. This manual will take you through the steps of operation of the applicator and also point out all safety precautions that need to be made while using the applicator. Read this manual carefully to learn how to operate the equipment correctly. Failure to do this can result in personal injury or equipment malfunction. If you are unsure about operating 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 your Installation 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.

Installation Kit Reference Chart

| BALER MAKE | MODEL | INSTALL KIT |
|------------|----------------------------------|--------------------|
| AGCO | 4750-4755 | 030-4490B |
| Hesston | 4760 | 030-4494B |
| | 4790 | 030-4492B |
| | 4900-4910 | 030-4491B |
| | 4760 roto-cutter | 030-4500B |
| | 4790 roto-cutter | 030-4501B |
| | 7430 | 030-4494B |
| | 7430 roto-cutter | 030-4500B |
| | 7433-7444 | 030-4518B |
| | 7433-7434 roto-cutter | 030-4519B |
| | 2150 – 2190 | 030-4518B |
| | 2150 – 2190 roto-cutter | 030-4519B |
| | 2150 – 2190 packer cutter | 030-4527B |
| Case IH | 8570-8575 | 030-4490B |
| | 8585 | 030-4492B |
| | 8580-8590 | 030-4491B |
| | LBX331-332 STD or packer | 030-4495B |
| | LBX431-432 STD or packer | 030-4495B |
| | LBX331-332 roto-cutter | 030-4497B |
| | LBX431-432 roto-cutter | 030-4497B |
| | LB333 – 433 STD or packer | 030-4495B |
| | LB333-433 roto-cutter | 030-4497B |
| | LB 433 STD or packer (2011-2012) | 030-4528B |
| | LB 433 roto-cuter (2011-2012) | 030-4529B |
| Challenger | LB33 | 030-4494B |
| | LB34 | 030-4492B |
| | LB44 | 030-4491B |
| | LB33B – LB44B | 030-4518B |
| | LB33B – LB34B roto-cutter | 030-4519B |
| | LB33B – LB34B packer cutter | 030-4527B |
| Krone | VFS 88 | 030-4498B |
| | VFS 88 cutter | 030-4495B |
| | VFS 128 | 030-4498B |
| | VFS 128 cutter | 030-4495B |

| | 890-12130 XC | 030-4514B |
|----------|---------------------------|-----------|
| | 890-12130 | 030-4515B |
| Kuhn | LSB 870 - 890 | 030-4510B |
| | LSB 1270 – 1290 | 030-4511B |
| | Omni-cut | 030-4525B |
| Claas | 2200/1200/3200/3300/3400 | 030-4499B |
| | 2100 | 030-4509B |
| Massey | 2050 | 030-4494B |
| Ferguson | 2050 roto-cutter | 030-4500B |
| | 2150 – 2190 | 030-4518B |
| | 2150 – 2170 roto-cutter | 030-4519B |
| | 2150 – 2190 packer cutter | 030-4527B |
| | 2170XD with roto-cutter | 030-4530B |
| New Idea | 7233 | 030-4490B |
| | 7234 | 030-4492B |
| | 7244 | 030-4491B |
| | 7333 | 030-4494B |

| New Holland | 590-BB9080 STD or packer | 030-4495B |
|-------------|----------------------------------|-----------|
| | BB940-BB9080 roto-cutter | 030-4497B |
| | BB9080 STD or packer (2011-2012) | 030-4528B |
| | BB9080 roto-cutter (2011-2012) | 030-4529B |
| Taarup | 6570 – 6570 OC | 030-4510B |
| | 6670 – 6690 OC | 030-4511B |
| Vermeer | SQ2731 | 030-4438B |
| | SQ3347 | 030-4439B |
| Vicon | LB 8200 | 030-4510B |
| | LB 12200 | 030-4511B |

Safety

Carefully read all the safety decals in this manual and on the applicator before use. Keep signs clean and in clear view. Replace missing or damaged safety decals. Replacement decals 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 symbols and decals 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-8003



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.

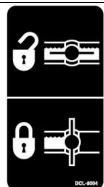
Part no. DCL-8001



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

Safety Decal Locations





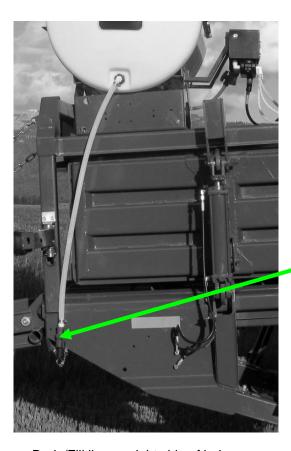
Preparing the Applicator for Operation

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

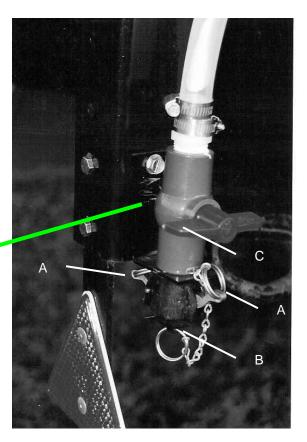
Filling the tank:

Read the label of the product you will use in the tank to determine individual protective measures to be taken. 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 in 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 transfer pump is 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.

Connecting Power and Communication Harnesses

The power (006-5650A & 006-5650B) and communication (006-5650C & 006-5650D) harnesses are color coded. The power harnesses are color coded red, the communication harnesses are grey. Always connect the communication harness first and the power second. The power harness should be disconnected whenever service work is to be done to the baler or applicator.

The harnesses are located at the front of the baler near the hitch and at the back of the tractor near the drawbar. See arrow below. Make sure all connection wires are free between the hitch of the baler and the back of the tractor, especially when tractor is turning away.

WARNING: Stop tractor engine and shift to park or neutral, set brakes and remove key before leaving the tractor.



Operation of the Main Ball Valve

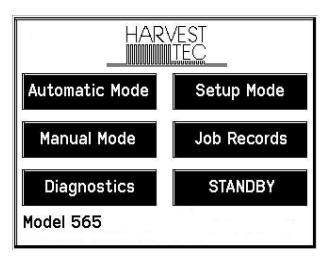
The ball valve shall be closed at all times when the applicator is not being used. The valve shall also be closed when any service work is being done to the baler or applicator.

The ball valve is located on the left side of the baler, connected to the pumping manifold. See arrow below.



Description of Screens & Menus of the Harvest Tec Monitor

This system is calibrated for use with Harvest Tec buffered propionic acid. The use of other products can cause application problems and damage to system components. It is designed to apply rates of 44 to 632 pounds of acid per hour and read moisture levels of 6 to 70 percent. The 565 monitor will allow you to set your bale size, weight, single bale formation time, moisture levels and application rates. The automatic mode will automatically adjust the application rates as the moisture level changes. Manual mode will allow you to control the application rates on the go.



Main Menu of the Harvest Tec Monitor

Automatic Mode This operating mode automatically adjusts preservative application as you bale. The following items are displayed in the mode while baling: Moisture, Baling Rate, Application Rate (actual and target), Last Bale Average Moisture, Tons Baled, and Pounds of Product Used.

Manual Mode This operating mode allows the three different pumps to be turned on at a fixed rate as you bale. The following items are displayed in the mode while baling: Moisture, Baling Rate, Application Rate (actual only), Last Bale Average Moisture, Tons Baled, and Pounds of Product Used. This mode can also be used to prime the pumps.

Setup Mode This mode allows the operator to customize the applicators settings for their baler and baling needs. This mode allows changes to be made to the following areas: Application Rate, Baling Rate, Language, US or Metric units, and turning on/off the optional Hay Indicators.

Diagnostics Allows operator to automatically check performance and output of pumps as well as set the date and time and calibrate the touch screen. The installed software versions can also be viewed here.

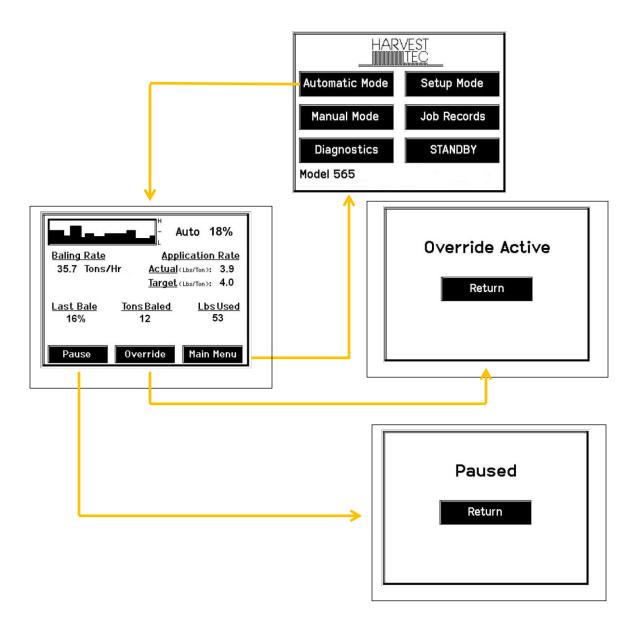
Job Records Keeps track of up to 300 jobs with total product used, average moisture content, highest moisture content, tons baled, date of baling, and total number of bales made. Individual bales are also able to be viewed and the records can also be downloaded to a USB drive in this mode.

Standby This powers down the display only. The application unit will not fully power down unless the keyed power is turned off. Press anywhere on the screen to power back on (with the key on).

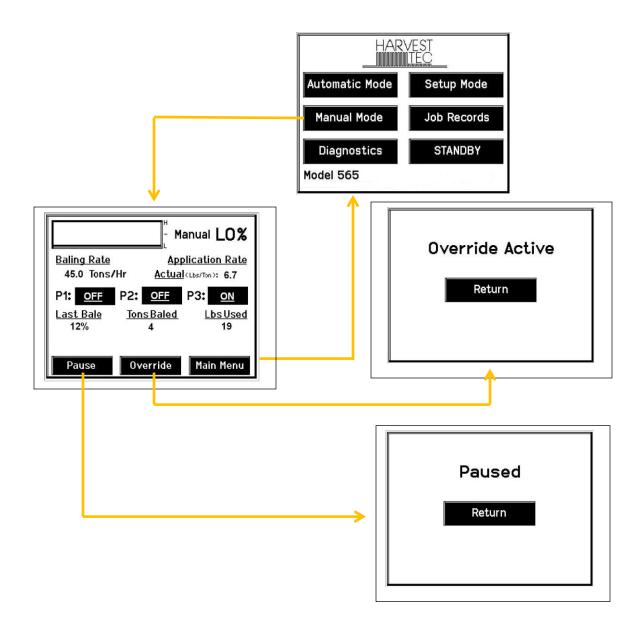
Screen Menus

Use the below listed screen menus to navigate through all of the operation screens.

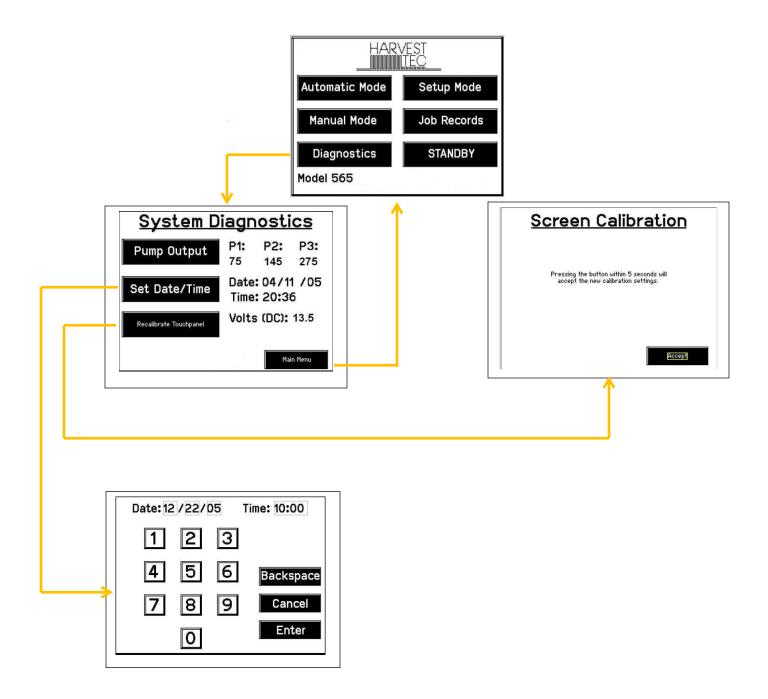
Automatic Mode:



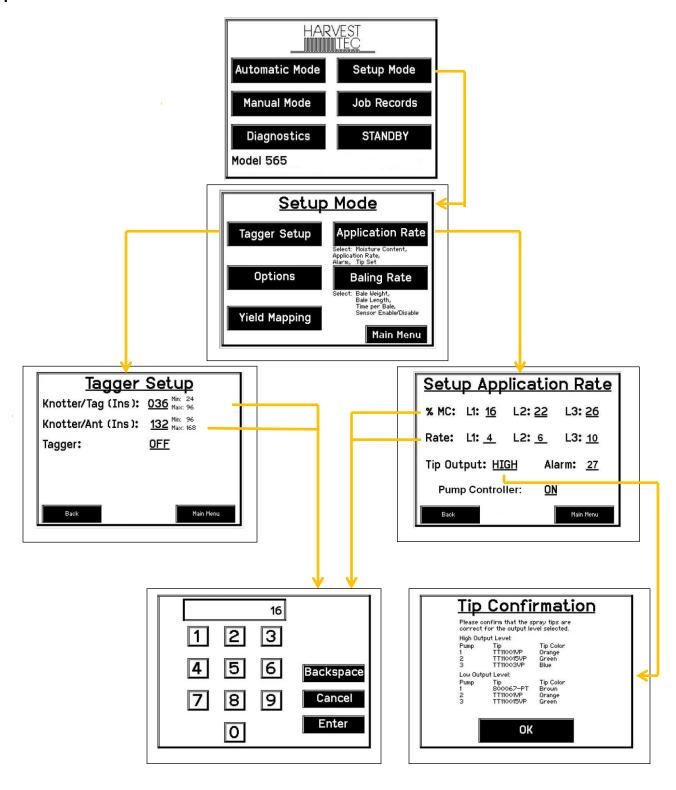
Manual Mode:



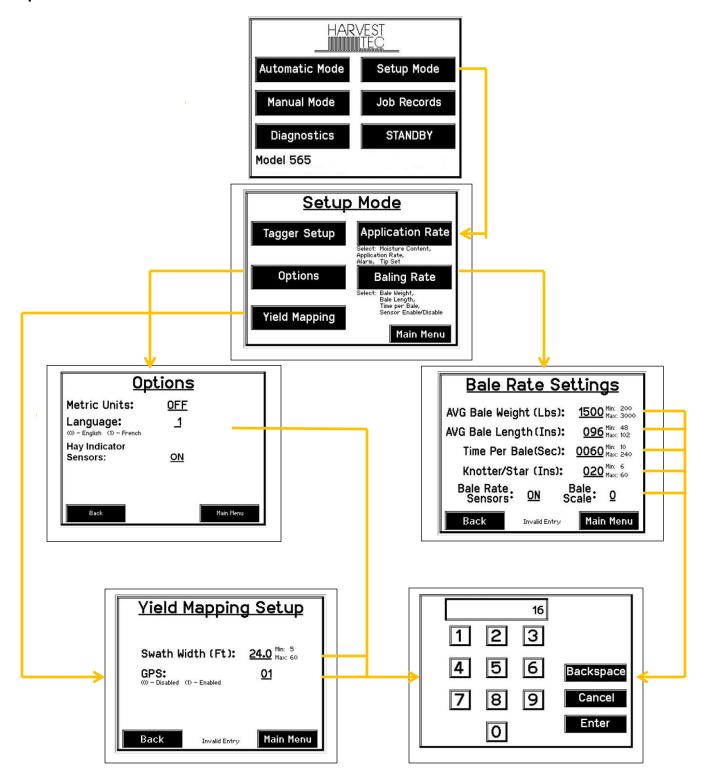
Diagnostics:



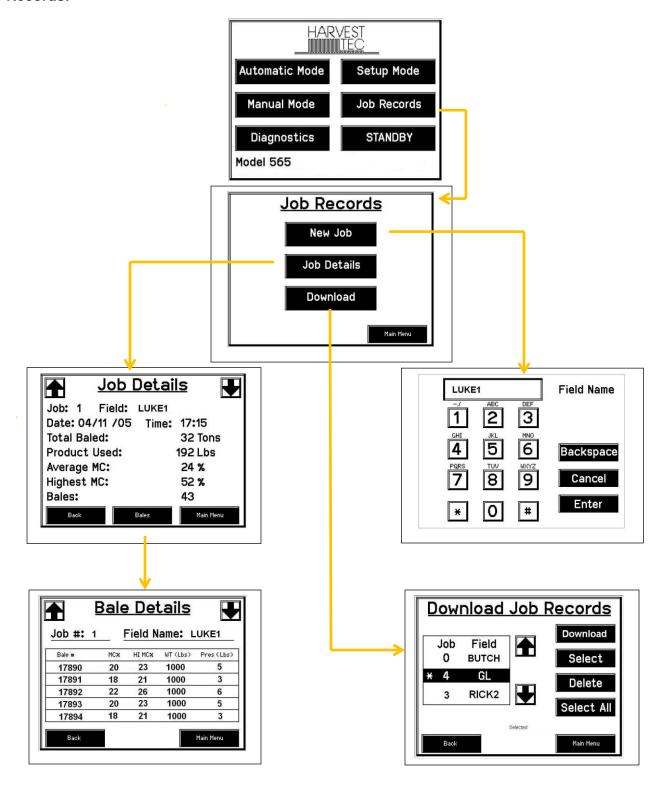
Setup Mode:



Setup Mode Continued:



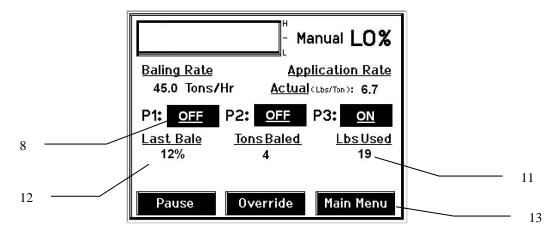
Job Records:



First time and annual start up instructions

Checking and priming the pumps

- 1. Put 10 gal 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. **Turn controller on (**turn on key to the tractor).
- 4. Press the SETUP MODE key. (See page 18) Select Sensors are: OFF to disable bale rate sensors. Make sure the AVG Bale Weight is 1500 lbs and the AVG Baler Length is 96 in. and EST Baling Time is 60 sec. Press the MAIN MENU key to return to the opening screen.
- 5. Press the MANUAL MODE key.
- 6. The screen shown below should appear.
- 7. The rates listed below are for Harvest Tec buffered propionic acid. Other products will need to be collected and weighed to assure proper performance is achieved.



- 8. NOTE: the system comes with the high tips already installed on the spray shield. Test the system with the tips you will use most often.
- With low tips in: Turn pump 1 on (P1). To do this press the underlined area on the screen which says OFF.
 The application rate should then read between 1.1 1.5 Lbs/Ton. Ideally, at 13.5 volts, the rate would read 1.3 Lbs/Ton.
- Repeat the process for pumps 2 and 3 (P2 and P3). The application rate should read between 1.9 2.6 Lbs/Ton and 2.9 3.9 Lbs/Ton respectively. Ideally, at 13.5 volts, the rate for pump 2 would be 2.2 Lbs/Ton; pump 3 would be 3.4 Lbs/Ton.
- **With high tips in:** Turn pump 1 on (P1). To do this press the underlined area on the screen which says <u>OFF</u>. The application rate should then read between 1.9 2.6 Lbs/Ton. Ideally, at 13.5 volts, the rate would read 2.2 Lbs/Ton.
- Repeat the process for pumps 2 and 3 (P2 and P3). The application rate should read between 2.9 3.9 Lbs/Ton and 5.7–7.7 Lbs/Ton respectively. Ideally, at 13.5 volts, the rate for pump 2 would be 3.4 Lbs/Ton; pump 3 would be 6.7 Lbs/Ton.
- 9. This process will also be used to prime the pumps whenever needed.
- 10. While running pumps check for a good spray pattern out of the respective tips and verify that no parts of the system are leaking.
- 11. While doing these tests the Volume Used on the bottom of the screen should be counting up, this verifies that the flow meter is functioning.
- 12. Last Bale shows the average moisture content of the last bale made. This information will then be saved in your Job Records.
- 13. Press the MAIN MENU key to return to the intial start up screen.

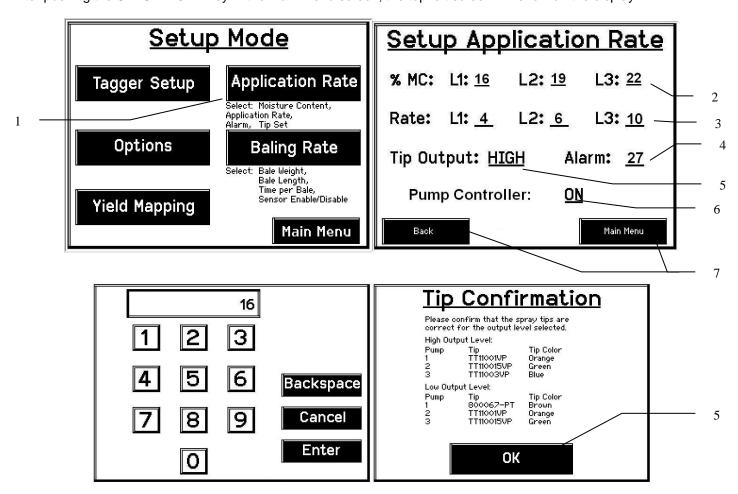
NOTE: It is recommended that the system run with the bale rate sensors on. Press the SETUP MODE key and turn the bale rate sensors back on for normal operation. (Also see Baling Rate to adjust bale weight, length, and time.)

Setting up system for initial use

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

Application rate

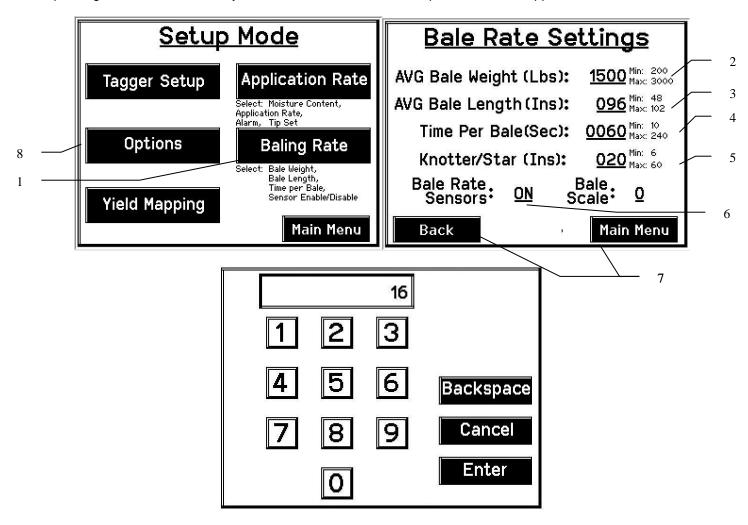
After pushing the SETUP MODE key in the Main Menu screen, the top left screen will show on the display:



- 1. On this screen the operator will press the APPLICATION RATE key.
- 2. Press any of the underlined numbers to the right of %MC to adjust their figures. The key 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. Harvest Tec products recommend set points of 16, 19 and 22% MC levels. These are preset from the factory. Press ENTER to return to previous screen.
- 3. To change rate of chemical application press any of the underlined numbers to the right of RATE. The key 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. Harvest Tec products recommend rates of 4, 6, and 10 lbs/ton. These rates are preset from the factory. Press ENTER 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 on the underlined area and set the level at which you want the alarm to activate. **To turn** the alarm off, set level above 80.
- 5. Press the underlined area next to Tip Output to cycle between the high and low sets of tips. The high tips will cover outputs of 84-632 lbs/hr at approximately 21-63 tons/hr. The low tips will cover outputs of 44-400 lbs/hr at approximately 11-40 tons/hr. Use the correct tip set for the field conditions.
- 6. The Pump Controller needs to be turned ON for the pumps and flow meter to function.
- 7. Next 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 on the bottom right hand figure of the screen to return to the opening screen.

Baling rate

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



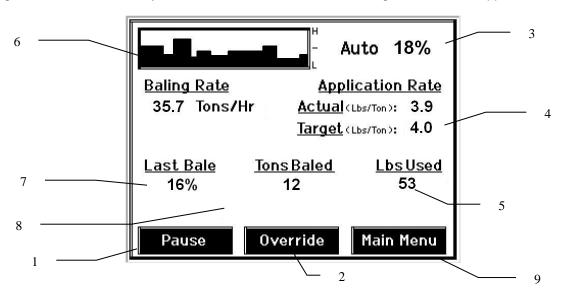
- 1. On this screen the operator will press the BALING RATE key.
- 2. Press the underlined number to the right of AVG Bale Weight (Lbs): to adjust the weight of your bales. The key pad shown will display. Press any number combination in this screen within the min/max limits. Press the ENTER key to save this information. The information will remain until it is changed again.
- 3. Press the underlined number to the right of AVG Bale Length (In): to adjust the length of your bales. The key pad shown will display. Press any number combination in this screen within the min/max limits. Press the ENTER key to save this information. The information will remain until it is changed again.
- 4. Press the underlined number to the right of EST Baling Time (Sec): to adjust the time it takes to make a bale. The key pad shown will display. Press any number combination in this screen within the min/max limits. Press the ENTER key to save this information. The information will remain until it is changed again.
- 5. Press the underlined number to the right of Knotter/Star to adjust the distance between the knotter and star wheel. To determine the distance, measure between the center of the starwheel and the center of the knotter.
- 6. If the unit will be operated with the bale sensors on, then the bale weight and length will need to be inputed. When the bale rate sensors are ON the applicator will calculate your tons per hour. When the Bale Rate Sensors are OFF a constant tons per hour (your inputed bale weight and time) will be used. Operating the unit with the Bale Rate Sensors OFF will cause total tons per hour in Job Records to be left blank. Press the underlined word to toggle between ON or OFF.
- 7. Press the BACK key found on the bottom left hand of the screen to return to the Setup Mode screen, or press the MAIN MENU key on the bottom right hand of the screen to return to the opening screen.
- 8. Press the OPTION key to adjust the touchscreen between metric and standard units and languages. The Hay Indicators can also be turned on or off in the OPTION screen. Press the underlined ON/OFF next to EOR.

Operating instructions

Auto mode will automatically apply product based on both hay moisture content sensed by the star wheels 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 or baling rate.**

Automatic mode

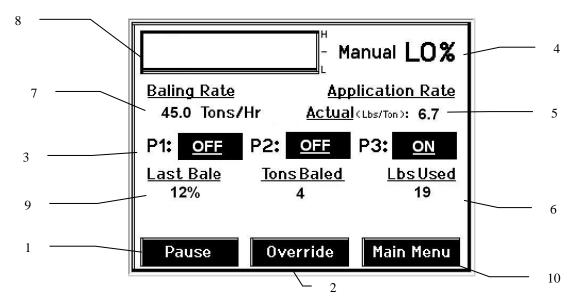
After pushing the Automatic Mode key in the Main Menu screen, the following screen should appear:



- 1. Push the Pause key to stop application while in operation.
- 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. The operator sets the target application rate in the setup mode; the actual rate should be within +/- one pound when running. The baling rate is also calculated in the Setup Mode.
- 5. The Totals on the bottom of the screen show the total tons baled and pounds of product used for the current job. These numbers will reset to zero when a new Job Record is started. If operating with Bale Rate Sensors OFF total tons baled will be zero.
- 6. The graph shows the moisture trend from the past 90 seconds in 3 second intervals.
- 7. Last Bale shows the average moisture content for the last bale.
- 8. Any Status Alerts for the system will appear in this area. See the STATUS ALERTS section for information.
- 9. Press the MAIN MENU key to return to the opening screen.

Manual mode

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



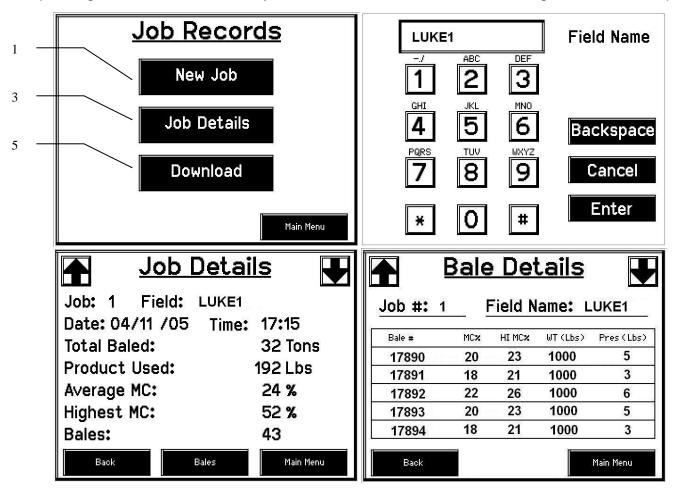
- 1. Push the Pause key to stop application while in operation.
- 2. Push the OVERRIDE key to turn on all three pumps at the same time for full output of the system. Use this mode when going through a short area of wet crop.
- 3. In Manual Mode you can turn the pumps on or off by pressing the underlined area next to the pump numbers. In Manual Mode (regardless of moisture, tons per hour or bale weight) the outputs of the pumps are fixed rates as follows:

| Low output tips: | High output tips: |
|---------------------|-----------------------|
| Pump 1 = 60 LBS/HR | Pump 1 = 100 LBS/HR |
| Pump 2 = 100 LBS/HR | Pump 2 = 150 LBS/HR |
| Pump 3 = 150 LBS/HR | Pump $3 = 300 LBS/HB$ |

- 4. The moisture content is shown in the upper right hand corner.
- 5. Baling rate and Application rate are shown in the middle. The output of a pump can be checked by dividing the preset output (shown in step 3) by the baling rate. For example, if you have the high output tips in and are running pump three by itself, your output is 300 lbs/hr. Given the baling rate shown on the above screen (45.0 tons/hr), the application rate should be about 6.7 lbs/ton (300lbs/hr divided by 45.0 tons/hr).
- 6. The Totals on the bottom of the screen show the total tons and pounds of product used for the current job. These numbers will reset to zero when a new Job Record is started. If operating with Bale Rate Sensors: OFF total tons baled will be zero.
- 7. The baling rate is set in the Setup Mode menu.
- 8. This graph shows the moisture trend from the last 90 seconds of baling (one reading every 3 seconds).
- 9. Last Bale shows the average moisture content for the last bale.
- 10. Press the MAIN MENU key to return to the opening screen.

Job Records

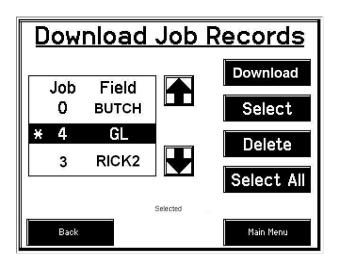
After pushing the JOB RECORDS key in the Main Menu screen, the following screen should appear:

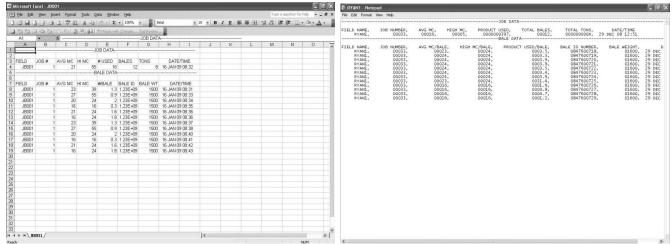


- 1. Pressing New Job will save all the previous bale records and open the Field Name screen.
- 2. Use the key pad in the Field Name screen to enter up to an eight character field name. Use the asterisk key to move on to the next letter or number if they are identical. Use the pound sign as a space between the characters. When you have completed the field name press enter.
- 3. Pressing Job Details will open the Job Details screen. Use the up and down arrows to scroll through the different jobs. Job: 0 will always be your current and open job record. Press Back to go to the Job Records screen or Main Menu for the main screen.
- 4. Pressing Bales on the bottom of the screen will open a Bale Details screen. This screen lets you look at the individual bale records for the first five bales made. Use the up and down arrows to scroll through five bales at a time. Press Back to go to the Job Details screen or Main Menu for the main screen.

Continued on the next page

Continued Job Records

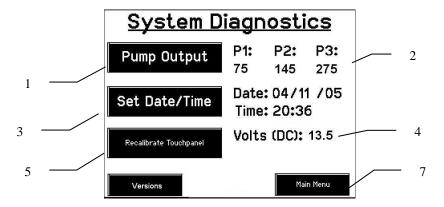




- 5. Pressing the Download key will open the Download Job Records screen. This screen lets you select jobs to download onto a USB drive. To download insert a USB drive into the port on the Precision Information Processor. Select the job(s) you would like to download using the up and down arrows to highlight the job(s), an asterisk will appear next to all selected jobs. Once all the jobs are selected press the Download key. Press the Download key again to confirm. When the USB drive light goes off all the jobs selected will be saved. The jobs can then be opened on any computer with Excel or Notepad. To delete jobs highlight, select them and press delete followed by pressing delete again for confirmation. Press Back to go to the Job Records screen or Main Menu for the main screen.
- 6. Pressing the Select key will select or unselect the highlighted job.
- 7. Pressing the Select All key will select all jobs, except for the current job (0). To unselect press the Back key.
- 8. The job record in excel will show as above. The Bale ID column will need to be adjusted for proper viewing.
- 9. The job record in Notepad will show as above. You will need to move right to see all the information.

Diagnostics

After pushing the DIAGNOSTICS key in the Main Menu screen, the following screen should appear:



The diagnostic mode will automatically check the pump output and performance of the three pumps. It is recommended to use this mode daily to ensure proper system performance.

Acceptable ranges for output:

| I ow | outpu | it t | ins: |
|------|-------------|------|------|
| | UULD | ис (| IDJ. |

Pump 1 = 54 - 67 LBS/HR Pump 2 = 90 - 110 LBS/HR Pump 3 = 135 - 165 LBS/HR

High output tips:

Pump 1 = 90 - 110 LBS/HR Pump 2 = 135 - 165 LBS/HR Pump 3 = 270 - 330 LBS/HR

- 1. Once the screen is displayed, press the PUMP OUTPUT key.
 - The machine will cycle all three of the pumps for 15 seconds. After the cycles are complete, the system will display a number next to each pump number.
- 2. If the system displays within the listed range.
 - A. The system is operating correctly.

If the system displays higher than the listed range, some common problems could be:

- A. Leak in line. Inspect lines thoroughly.
- B. Tip missing. Check for lost or broken tip on spray shield.
- C. Tip worn. Replace tip.
- D. High tractor voltage.

If the system displays lower than the listed range, some common problems could be:

- A. Make sure there is preservative in the tank and ball valve is in the open position.
- B. Air in lines. Pump will not prime. Check for leak in lines, or defective check valve.
- C. Pump is working, but not producing desired output. Pump needs to be rebuilt.
- D. Main filter plugged. Check filter by tank and clean if necessary.
- E. Tip or tip screen plugged. Check both tip and tip screen and clean if necessary.
- F. Kink in hose. Straighten or replace hose.
- G. Voltage from tractor is low. Check power cord with multimeter for 12 volts at baler mounted processor. Clean connections on battery. Dielectric grease connections at baler mounted processor and at hitch connection.
- H. Pump is defective. Rebuild pump if motor runs smoothly. Replace pump if motor is bad.
- I. Defective flow meter. Only if all pumps run, product is applied, and all numbers read 0.
- 3. To set date and time, press the SET DATE/TIME key. In the next screen enter the date (month, day, year format) followed by the time. When done press the ENTER key. NOTE: The clock uses military (or 24 hour) time.
- 4. The voltage should be between 12.0 to 14.5 volts for the system to work properly. If voltage is not in this range check all power cord connections and the tractors charging system.
- 5. Press the Recalibrate Touchpad key to realign the screen keys to your preference. When the screen appears follow the directions and press accept when done.
- 6. Press the Versions key to check all software versions of modules attached to the PIP.
- 7. When done in this mode, press the MAIN MENU key.

Common questions about the 565

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

Turn the key in the tractor to the on position. If the unit is in Standby Mode, press anywhere on the screen. To turn off, press the Standby key, wait for the screen to power down and turn off the key.

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

In the Main Menu press the SETUP MODE key. From this screen you can change your application rates and how much product is applied. See 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 do I recalibrate the touch screen display?

In the system diagnostics screen press the Recalibrate Touch screen key and follow the directions on the screen. Press accept when done.

10. How can I turn the optional Hay Indicators on/off from the cab?

In the Setup Mode screen press options. Press the on/off underlined area next to EOR sensor.

Maintenance

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

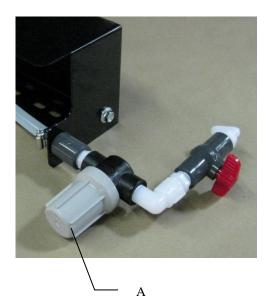
Maintenance Schedule

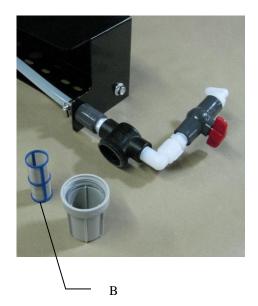
| | Daily | 10 hrs | 400 hrs | Weekly | Monthly | Season |
|-------------------------------|-------|--------|---------|--------|---------|--------|
| Diagnostics | Χ | | | | | X |
| Filter bowl cleaning | | Χ | | | | X |
| Tips & tip screen cleaning | | Χ | | | | X |
| Tank lid cleaning | | Χ | | | |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

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.



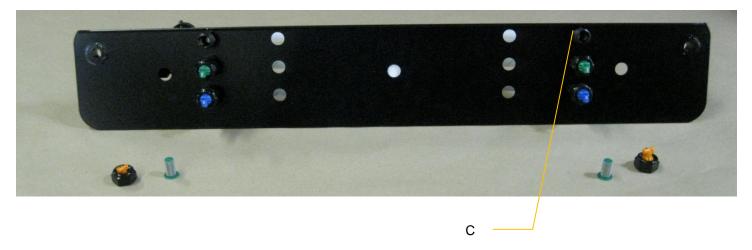


Tips & tip screen cleaning: The spray shield assembly that holds the tips and tip screens is located above the pickup head.

Before cleaning the tips and screens all personal protective equipment must be worn (Face shield or goggles, chemically resistant apron, boots, and gloves).

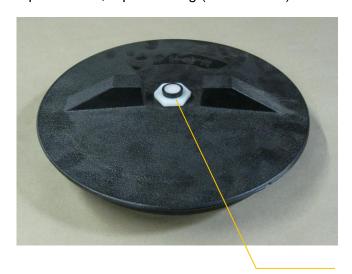
Verify that the ball valve located next to the pump is turned off. Disconnect spray shield from hangers by removing the lynch pins (A). Disconnect check valve nuts and remove hoses from shield. (B) Remove shield from baler. Remove all six nozzle caps with a 7/8 inch wrench.(C) Hold the nozzle body from turning while removing the nozzle caps with a 11/16 inch wrench. Remove the tip, and screen. Clean off any debris and soak in warm water with a mild soap if necessary. Once the tips and screens are cleaned reinstall by following the directions in reverse.

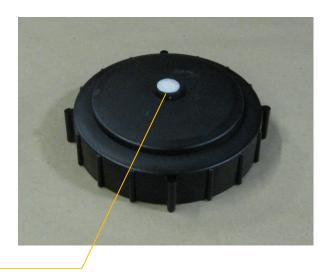




Tank lid cleaning: Before cleaning the tank lid all personal protective equipment must be worn (Face shield or goggles, chemically resistant apron, boots, and gloves).

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 screen (D). If the screen cannot be thoroughly cleaned with compressed air, replace fitting (005-9022B3). Once the screen 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 it is dry.
- 4. Drain all lines on the outlet side.
- 5. Never use oils or alcohol based anti-freeze in the system.
- 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 this.

Trouble Shooting:

| Problem | Possible cause | Solution |
|--|---|---|
| Pump will not run. | No voltage to PIP or Pump | Check for short, low voltage, and |
| | controller. | replace fuse(s) if necessary. |
| | 2. 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 |
| | in a dee blewit entrainpresident | 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. |
| | 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. |
| | 2. Pump worn or dirty. | 2. Rebuild pump. |
| Moisture reading errors (high or low) | Wire disconnected or bad connection between star wheels and PIP | 1. Reconnect wire. |
| | 2. Low power supply to PIP | 2. Check voltage at box. (Min of 12 volts required.) See Diagnostics section of manual. |
| | 3. Wet hay over 75% moisture | |
| | 4. Ground contact with one or both star wheels and baler mounted processor. | 4. Reconnect. |
| | 5. Short in wire between star wheels and PIP. | 5. Replace wire. |
| | 6. Check hay with hand tester to verify. | 6. Contact Harvest Tec if conditions persist. |
| Moisture readings erratic. | Test bales with hand tester to | |
| | verify that cab monitor has more | |
| | variation than hand tester. | |
| | 2. Check all wiring connections for | Apply dielectric grease to all |
| | corrosion or poor contact. | connections. |
| | 3. Check power supply at tractor. | Install voltage surge protection on |
| | Voltage should be constant | tractors alternator. |
| Plana de la constanta del constanta de la cons | between 12 and 14 volts. | |
| Flow meter readings do not match up with product usage. | | |
| Product is less than actual product used. | Voltage supplied to meter is less than 6 volts. | Check for a min of 6 volts supplied at Pump controller. |
| | Wiring short in signal to baler mounted processor. | 2. Inspect wire and replace if necessary. |
| | 3. Clog in meter. | 3. Back flush with water. DO NOT USE AIR. |
| | Using product other than Harvest Tec | Catch and weigh product to check outputs. |
| | | · |
| Product shown is more than actual product used. | High voltage supplied to the meter. | Check voltage at Pump controller. Max of 18 volts. |
| | 2. Light interference with meter. | Reflection into meter can cause a 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. |
| | 4. Using product other than | Catch and weigh product to check |

| | Harvest Tec | outputs. |
|---|---|--|
| System leaks product out of tips after shut down. | Dirty or defective check valves. | Clean or Replace. |
| Terminal reads under or over power. | Verify with mult-meter actual voltage. Voltage range should be between 12-14 volts. | Clean connections and make sure applicator is hooked to battery. See 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 instructions |
| Bale rate displays zero. | Bale rate sensors are reversed. Short in cable. Damaged sensor. | Switch the sensors next to the star wheel. Replace cable. Replace sensor. |
| Display will not power up. | Connection broke between the display and the PIP. Short in display cable. | Check, clean, and tighten connections. Replace cable. |
| Display is too dark or light | Change in temperature or light conditions. | Use the monitors contrast control. |
| Display is locked up/froze. | CAN communication not responding. Broke connection between the display and PIP or Pump control and PIP. | Check connections at PIP and Pump controller including the terminating resistors. Check, clean, and tighten connections. Power unit down and restart after steps 1 & 2 are complete. |
| Display powers up when key is turned and will not go to the Main Menu screen. | CAN communication not responding. Broke connection between the display and PIP or Pump control and PIP. | Check connections at PIP and Pump controller including the terminating resistors. Check, clean, and tighten connections. Power unit down and restart after steps 1 & 2 are complete. |
| Display is locked up/froze and pumps continue to run. | CAN communication not responding. Broke connection between the display and PIP or Pump control and PIP. | Check connections at PIP and Pump controller including the terminating resistors. Check, clean, and tighten connections. Power unit down and restart after steps 1 & 2 are complete. |
| Display says PAC error | The PIP and Pump controller are not communicating. Broke connection between the display and PIP or Pump control and PIP. | Check all connections at PIP and Pump controller including terminating resistors. Check, clean, and tighten connections. |

Wiring Diagrams

A. Main power connector mounted on battery

Pin 1 Red + 12 V input from tractor supply
Pin 2 Black Ground from tractor supply

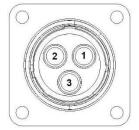
Pin 3 Orange Keyed power



B. Main power connector mounted on PIP

Pin 1 Red + 12 V input from tractor supply Pin 2 Black Ground from tractor supply

Pin 3 Orange Keyed power

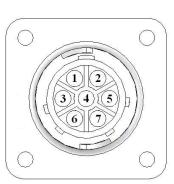


C. Pump connection colors

| Pin 1 | Black with orange markings | Pump 1 ground |
|-------|----------------------------|---------------|
| Pin 2 | Black with green markings | Pump 2 ground |
| Pin 3 | Black with yellow markings | Pump 3 ground |

Pin 4 Not used

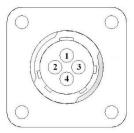
| Pin 5 | Orange with black markings | Pump 1 positive |
|-------|----------------------------|-----------------|
| Pin 6 | Green with black markings | Pump 2 positive |
| Pin 7 | Yellow with black markings | Pump 3 positive |



D. Flow meter connection on Pump Controller

Pin 1 White 5 - 12 V (+) supply

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

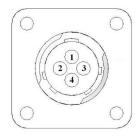


E. Connector for Hay Indicator option on PIP

Note: Hay indicators are an option that will turn the system on and off automatically as hay enters the pickup of the baler.

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

Pin 4 Not used

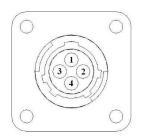


F. End of bale sensor on PIP

Pin1 Brown Sensor power Pin2 Blue Sensor ground

Pin3 Not used

Pin4 Black Signal from sensor



G. Star wheel and Bale rate sensor connector on PIP

Pin 1 Blue 12 volt power Pin 2 Orange Ground

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

Pin 5 Not used

Pin 6 Not used

Pin 7 Not used

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



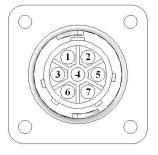
H. Display communication harness on PIP

Pin 1 Orange Power to display
Pin 2 Blue Ground to display
Pin 3 Green Comm channel OH

Pin 4 Silver Shield

Pin 5 Yellow Comm channel OL

Pin 6 Not used Pin 7 Not used



I. Communication harness on PIP and Pump Controller

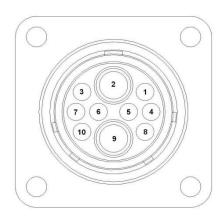
Pin 1 Red Can 12 volt
Pin 2 Red Battery 12 volt

Pin 3 Grey 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 Battery ground

Pin 10 Not used



Tank, Saddle, and Legs Breakdowns

Vermeer, Claas, and Krone balers with 100 gallon tank



Tank Saddle Part#:001-6706A

Tank lid 005-9022C

Tank for: Vermeer, Claas, and Krone balers

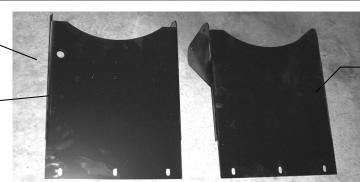


Tank straps 001-4402

100-gl tank 005-9206 Not pictured: Handrail 001-6707HR

Legs for Vermeer, Claas and Krone Balers

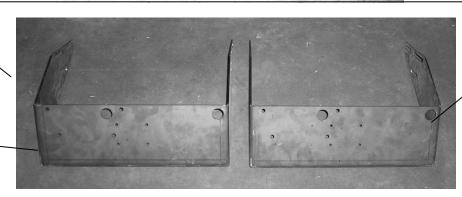
Left Leg Part #:001-6706V



Right Leg Part #:001-6706V

Legs for Agco, Hesston, Massey & Challenger

Saddle leg Part# 001-6707C



Saddle leg Part# 001-6707C

Legs for New
Holland BB940A,
BB960A and Case
IH LBX 332, LBX
432 series balers
with 110 gallon
tanks

Not Pictured:

Vicon Leg spacers 001-6707BS - qty 2 Tank handle: 001-6707HR - qty 1



Left Leg Part#:001-6707BL Ta 001-6707DR (2011 and Parewer 4 ft wide)

Tank Saddle Part#:901-6707A

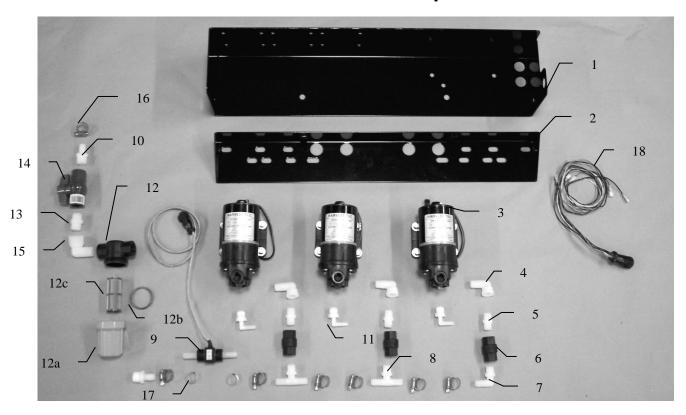


Tank-110 gallon Part#: 005-9208

Not pictured: Handrail 001-6707HR

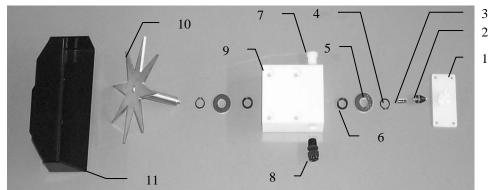
Part#:001-4402B

Parts Breakdown for Pump Manifold

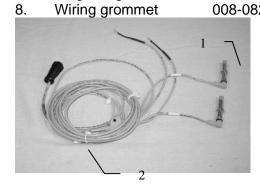


| Ref# | <u>Description</u> | Part# | <u>Qty</u> |
|------|-------------------------------|-------------|-------------|
| 1 | Pump plate | 001-4646D | 1 |
| 2 | Mounting Bracket | 001-4646C | 1 |
| 3 | Pump | 007-4120H | 3 |
| 4 | Street elbow fitting | 003-SE38 | 3 3 3 |
| 5 | Nipple fitting | 003-M3838 | 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 | 1 |
| 12a | Filter bowl only | 002-4315F | 1 |
| 12b | Filter bowl gasket | 002-4315D | 1 |
| 12c | Filter bowl screen | 002-4315B | 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 |
| NP | Not Pictured | | |

Parts Breakdown for Star Wheel Moisture Sensors

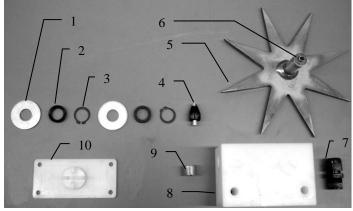


| Ref | <u>Description</u> | Part# | Qty | Ref | <u>Description</u> | Part# | Qty |
|-----|----------------------|-------------|-----|------|----------------------------|-----------|-----|
| 1. | Block cover | 006-4641B | 2 | 9. | Star wheel block | 006-4641A | 2 |
| 2. | Electronic swivel | 006-4642A | 2 | 10. | Star wheel sensor | 030-4641C | 2 |
| 3. | Swivel insert | w/ Ref # 10 | 2 | 11. | Twine guard-left | 001-4645 | 1 |
| 4. | Snap ring (per side) | 006-4641K | 2 | | Twine guard-right (prox) | 001-4644 | 1 |
| 5. | Washer (per side) | w/006-4641K | 2 | | Twine guard-left for Agco | 001-4645H | 1 |
| 6. | Dust seal (per side) | w/006-4641K | 2 | | Twine guard-Right for Agco | 001-4644H | 1 |
| 7. | Plug fitting | 003-F38 | 2 | 1-10 | Star wheel assembly | 030-4641 | 2 |
| 8. | Wiring grommet | 008-0821A | 2 | | | | |



| Ref | Description | Part# | Qty |
|-----|--------------------|-----------|-----|
| 1 | Bale rate sensor | 006-7303S | 2 |
| 2 | Moisture and bale | 006-7303H | 1 |
| | rate harness | | |

Vicon & Kuhn balers



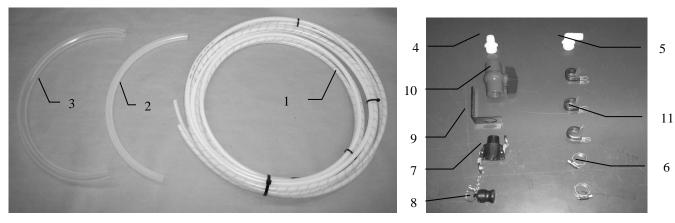
| Ref | Description | Part# | Qty | Ref | <u>Description</u> | Part# | Qty |
|-----|----------------------|-------------|-----|------|---------------------|------------|------------|
| 1 | Washer (per side) | 006-4642K | 2 | 6 | Insert | w/ Ref # 5 | 2 |
| 2 | Dust Seal (per side) | w/006-4642K | 1 | 7 | Wiring grommet | 008-0821A | 2 |
| 3 | Snap Ring (per side) | w/006-4642K | 2 | 8 | Star wheel block | 006-4641A | 2 |
| 4 | Swivel | 006-4642A | 2 | 9 | Plug Fitting | 003-F38 | 2 |
| 5 | Star Wheel | 030-4641E | 2 | 10 | Block Cover | 006-4641B | 2 |
| | | | | 1-10 | Star wheel assembly | 030-4642 | 2 |

Parts Breakdown for Control Boxes and Wiring Harnesses

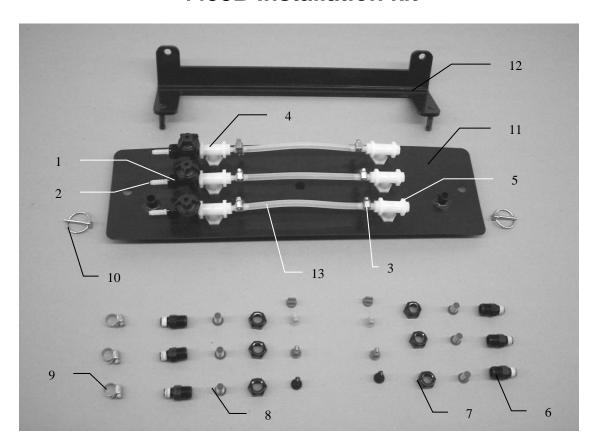


| Ref | <u>Description</u> | Part# | Qty |
|-----|---|---------------|-----|
| 1 | Power lead tractor | 006-5650A | 1 |
| 2 | Power lead baler | 006-5650B | 1 |
| 3 | Communication harness (baler) | 006-5650D | 1 |
| 4 | Communication harness (tractor) | 006-5650C | 1 |
| 5 | Ram mount | 001-2012H | 1 |
| 6 | Terminating resistor | 006-5650Z | 1 |
| 7 | Precision information processor | 006-5671LS2 | 1 |
| 8 | Pump controller harness | 006-5650F | 1 |
| 8 | Pump controller harness (Krone balers only) | 006-5650F2 | 1 |
| 9 | End of bale sensor | 006-7400 | 1 |
| 10 | Pump controller | 006-5672 | 1 |
| 11 | End of bale sensor bracket | 001-4648 | 1 |
| 12 | Display | 006-5670 | 1 |
| NP | Dust plug kit | 006-5650PLUGS | 1 |
| NP | Suction cup mount | 001-2012SCM | 1 |
| NP | Not pictured | | |

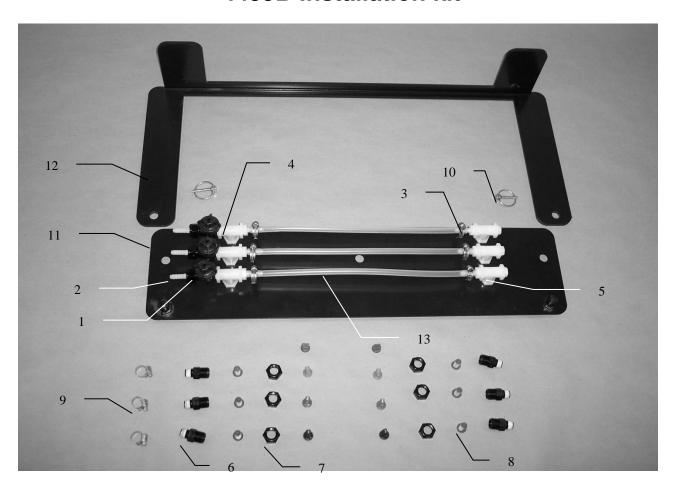
Parts Breakdown for Hose and Drain Fill Line



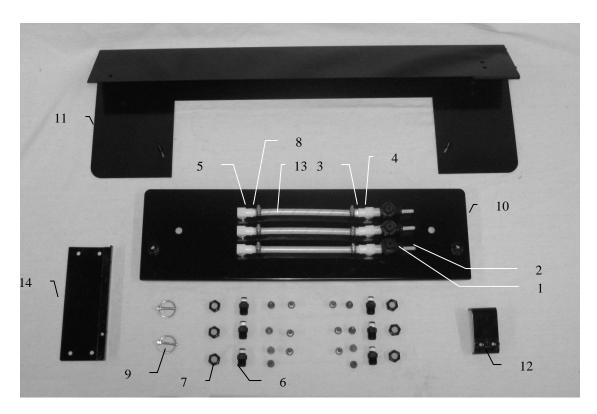
| Ref | <u>Description</u> | Part# | Qty | <u>Ref</u> | <u>Description</u> | Part# | <u>Qty</u> |
|-----|--------------------------------------|------------|------|------------|--------------------|-----------|------------|
| 1 | Triple weld hose (from pumps to | 002-9016 | 35ft | 7 | Female Coupler | 002-2204A | 1 |
| | tips) | 002-9016B | 35ft | | | | |
| | | 002-9016G | 35ft | | | | |
| | Three hose assembly | 030-9016LS | 1 | | | | |
| 2 | ½" Hose (tank to filter) | 002-9001 | 6ft | 8 | Male Coupler | 002-2205G | 1 |
| 3 | 3/4" Hose (tank to drain/fill valve) | 002-9002 | 5ft | 9 | Valve Holder | 001-6702H | 1 |
| 4 | Straight Fitting | 003-A3434 | 1 | 10 | Ball valve | 002-2200 | 1 |
| 5 | Elbow | 003-EL3434 | 1 | 11 | Jiffy Clip | 008-9010 | 3 |
| 6 | Hose Clamps | 003-9004 | 2 | | • • | | |



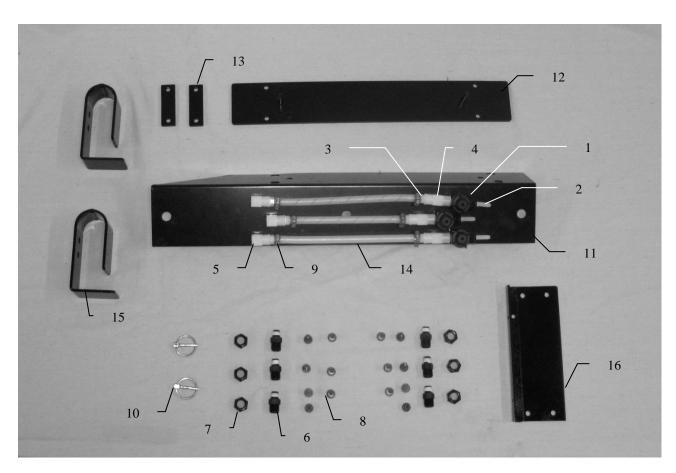
| Ref | Description | Part # | <u>Qty</u> | Description | Part # | Qty |
|-----|--------------------|--------------|------------|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4438A | 1 | | | |
| 12 | Mounting bracket | 001-4438B | 1 | | | |
| 13 | Hose – 1/4" | 002-9016 | 3ft | | | |



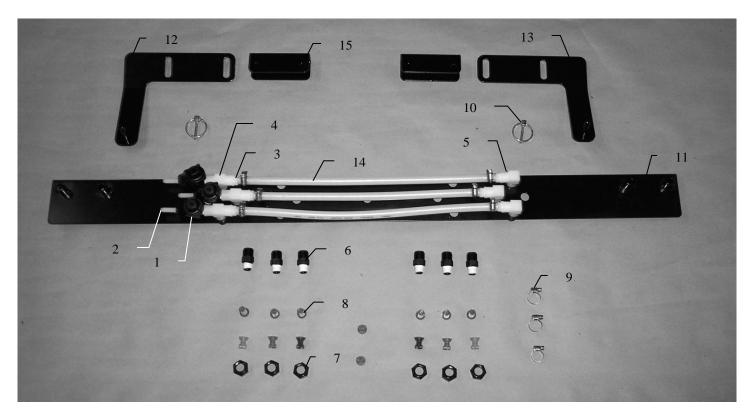
| <u>Ref</u> | <u>Description</u> | Part # | <u>Qty</u> | Description | Part # | <u>Qty</u> |
|------------|--------------------|--------------|------------|--------------------|----------------|------------|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4439A | 1 | | | |
| 12 | Mounting bracket | 001-4439B | 1 | | | |
| 13 | Hose - 1/4" | 002-9016 | 3 | | | |



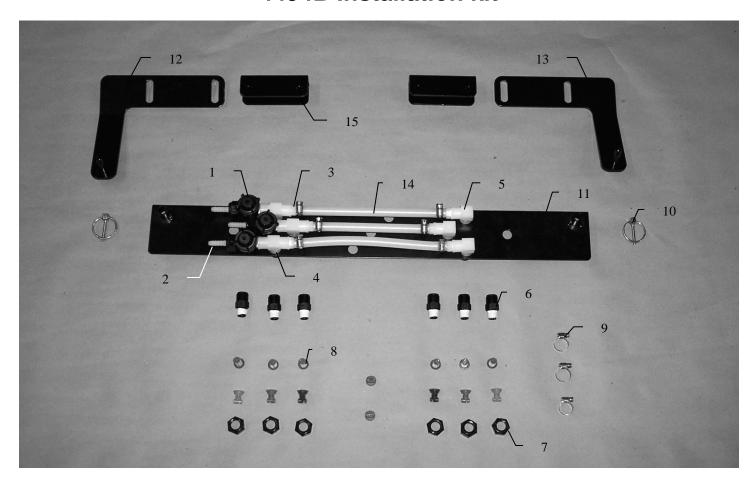
| <u>Ref</u> | <u>Description</u> | Part # | <u>Qty</u> | Description | Part # | Qty |
|------------|--------------------|-------------|------------|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | Tip strainer | 004-1203-100 | 6 |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Hose clamp | 003-9002 | 9 | | | |
| 9 | Lynch pin | 008-4576 | 2 | | | |
| 10 | Spray shield | 001-4421 | 1 | | | |
| 11 | Shield holder | 001-4421B | 1 | | | |
| 12 | Backing plate | 001-4421A | 1 | | | |
| 13 | Hose – 1/4" | 002-9016 | 3ft | | | |
| 14 | End of bale mount | 001-4648H | 1 | | | |



| Ref | Description | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|--------------|------------|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4422 | 1 | | | |
| 12 | Shield holder | 001-4422B | 1 | | | |
| 13 | Backing plate | 001-4422A | 2 | | | |
| 14 | Hose - 1/4" | 002-9016 | 3ft | | | |
| 15 | Ladder bracket | 001-6707H | 2 | | | |
| 16 | End of bale mount | 001-4648H | 1 | | | |

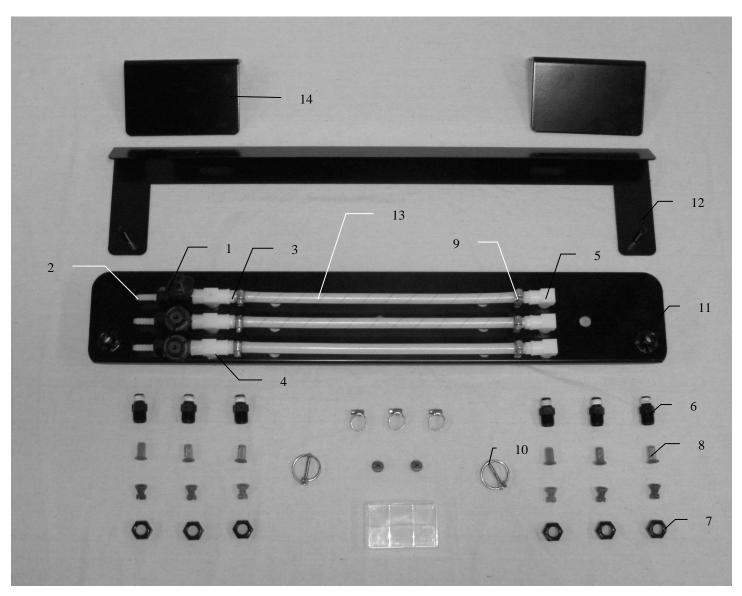


| Ref | Description | Part # | Qty | Description | Part # | Qty |
|-----|---------------------|--------------|------------|--------------------|----------------|------------|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4811A | 1 | | | |
| 12 | Left shield holder | 001-4436DL | 1 | | | |
| 13 | Right shield holder | 001-4436DR | 1 | | | |
| 14 | Hose – 1/4" | 002-9016 | 3ft | | | |
| 15 | Spacer | 001-4436S | 2 | | | |



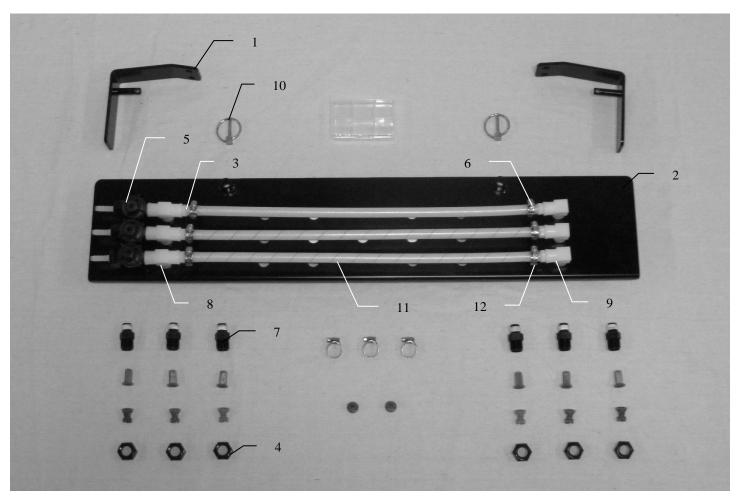
| Ref | <u>Description</u> | Part # | Qty | Description | Part # | Qty |
|-----|---------------------|--------------|------------|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4810 | 1 | | | |
| 12 | Left shield holder | 001-4436DL | 1 | | | |
| 13 | Right shield holder | 001-4436DR | 1 | | | |
| 14 | Hose – 1/4" | 002-9016 | 3ft | | | |
| 15 | Spacer | 001-4436S | 2 | | | |
| | | | | | | |

4495B & 4528B Installation kit



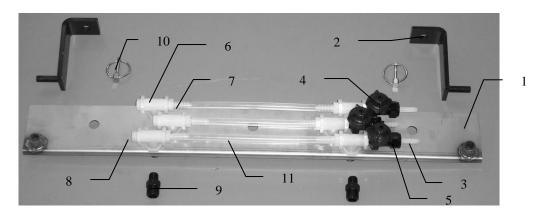
| Ref | <u>Description</u> | Part# | Qty | Description | Part# | Qty |
|-----|--------------------|--------------|-----|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4431 | 1 | | | |
| 12 | Shield holder | 001-4431B | 1 | | | |
| 13 | Hose – 1/4" | 002-9016 | 3ft | | | |
| 14 | Wind guard stop | 001-4431D | 2 | | | |

4497B & 4529B Installation kit

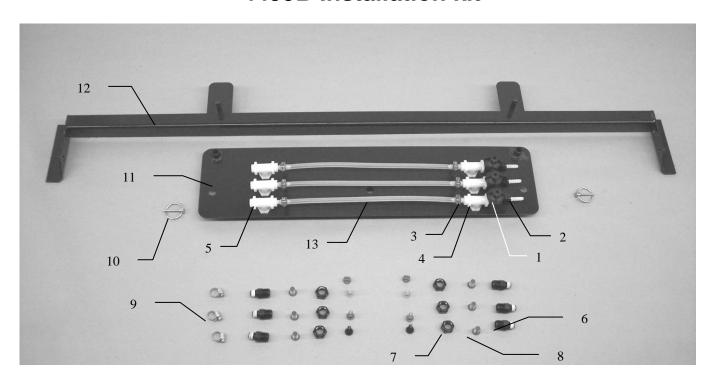


| Ref | Description | Part# | Qty | Des |
|-----|--------------------|-------------|-----|-------|
| 1 | Mounting Brkt | 001-4435E | 2 | Tip |
| 2 | Spray Shield | 001-4435ES | 1 | Tip |
| 3 | Straight Fitting | 003-A1414VB | 3 | Tip |
| 4 | Nozzle Cap | 004-4723 | 9 | Tip |
| 5 | Check Valve | 004-1207VB | 3 | Tip S |
| 6 | Straight Fitting | 003-A1414 | 6 | |
| 7 | Nozzle Body | 004-4722 | 6 | |
| 8 | Tee | 003-TT14SQ | 3 | |
| 9 | Street elbow | 003-SE14F | 3 | |
| 10 | Lynch Pin | 008-4576 | 2 | |
| 11 | Hose | 002-9016 | 4ft | |
| 12 | Hose Clamps | 003-9002 | 9 | |

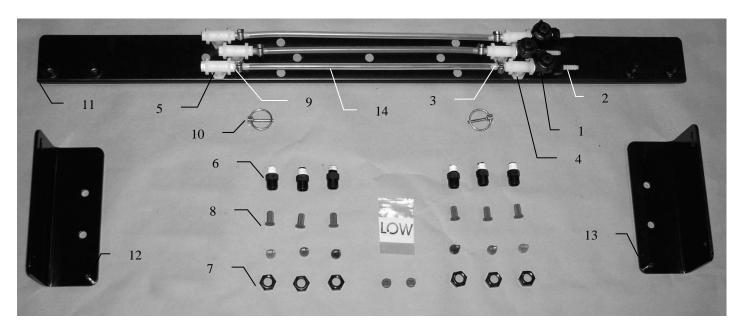
| Description | Part# | Qty |
|--------------------|----------------|-----|
| Tip | 004-TT11001VP | 2 |
| Tip | 004-TT110015VP | 2 |
| Tip | 004-TT11003VP | 2 |
| Tip | 004-800067-PT | 2 |
| Tip Strainers | 004-1203-100 | 6 |



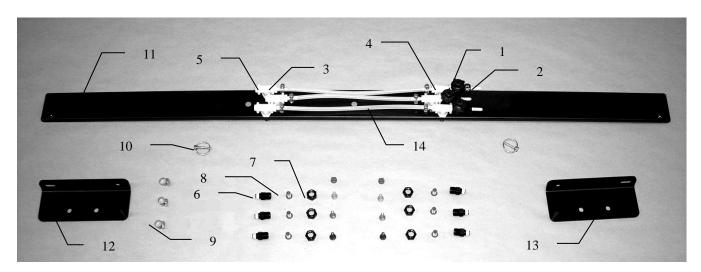
| Ref | Description | Part# | Qty | Ref | Description | Part# | Qty |
|-----|--------------------|----------------------|-----|-----|--------------------|----------------|-----|
| 1 | Spray Shield | 001-4 810 | 1 | NP | Tip | 004-TT11001VP | 2 |
| 2 | Shield Holder | 001-4810A | 2 | NP | Tip | 004-TT110015VP | 2 |
| 3 | Straight Fitting | 003-A1414VB | 3 | NP | Tip | 004-TT11003VP | 2 |
| 4 | Check Valve | 004-1207VB | 3 | NP | Tip | 004-800067-PT | 2 |
| 5 | Nozzle Cap | 004-4723 | 9 | NP | Tip Strainers | 004-1203-100 | 6 |
| 6 | Tee | 003-TT14 | 6 | NP | Hose Clamps | 003-9002 | 9 |
| 7 | Straight Fitting | 003-A1414 | 6 | | | | |
| 8 | Plug | 003-F14 | 3 | NP | Not Pictured | | |
| 9 | Nozzle Body | 004-4722 | 6 | | | | |
| 10 | Lynch Pin | 008-4576 | 2 | | | | |
| 11 | Hose | 002-9006 | 4ft | | | | |



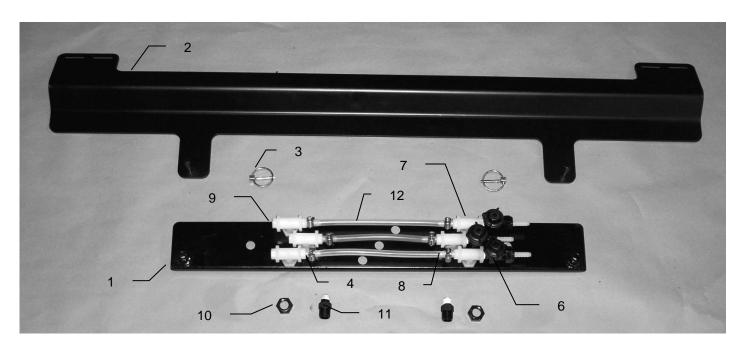
| Ref | Description | Part# | Qty | Description | Part# | Qty |
|-----|------------------|--------------|------------|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4439A | 1 | | | |
| 12 | Shield holder | 001-4440 | 1 | | | |
| 13 | Hose – 1/4" | 002-9016 | 3ft | | | |



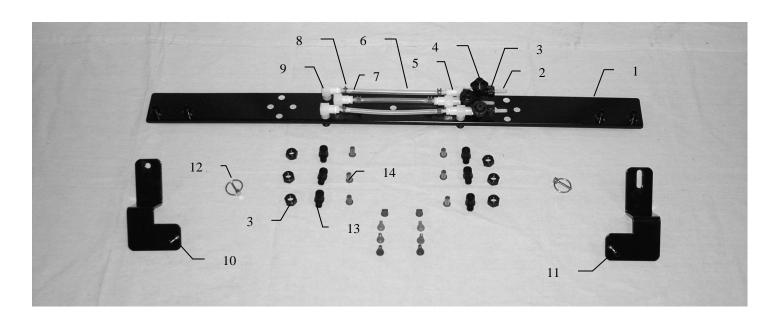
| Ref | Description | Part# | Qty | Description | Part# | Qty |
|-----|---------------------|--------------|------------|-------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4811A | 1 | | | |
| 12 | Left shield holder | 001-4436CL | 1 | | | |
| 13 | Right shield holder | 001-4436CR | 1 | | | |
| 14 | Hose | 002-9016 | 3ft | | | |



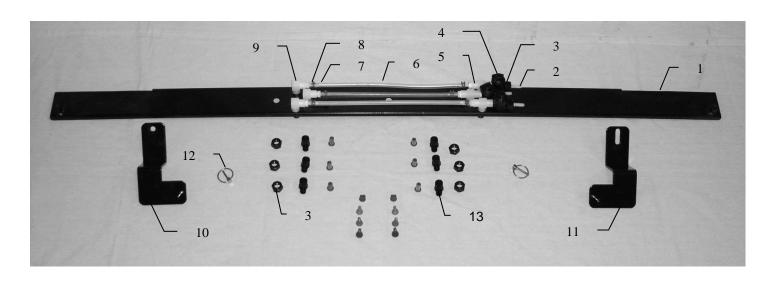
| Ref | <u>Description</u> | Part# | Qty | Description | Part# | Qty |
|-----|---------------------|--------------|-----|--------------------|----------------|-----|
| 1 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT11001VP | 2 |
| 3 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT110015VP | 2 |
| 4 | Tee | 003-TT14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Street elbow | 003-SE14F | 3 | | | |
| 6 | Nozzle body | 004-4722 | 6 | | | |
| 7 | Nozzle cap | 004-4723 | 9 | | | |
| 8 | Tip strainer | 004-1203-100 | 6 | | | |
| 9 | Hose clamp | 003-9002 | 9 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Spray shield | 001-4436CS | 1 | | | |
| 12 | Left shield holder | 001-4436CL | 1 | | | |
| 13 | Right shield holder | 001-4436CR | 1 | | | |
| 14 | Hose – 1/4" | 002-9016 | 3ft | | | |



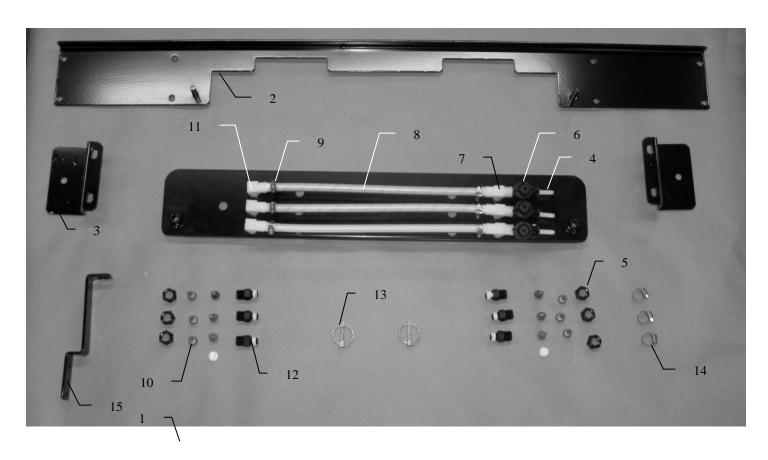
| Ref | Description | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|-------------|-----|--------------------|----------------|-----|
| 1 | Spray Shield | 001-4810 | 1 | Tip | 004-TT11001VP | 2 |
| 2 | Shield holder | 001-4440A | 1 | Tip | 004-TT110015VP | 2 |
| 3 | Lynch Pins | 008-4576 | 2 | Tip | 004-TT11003VP | 2 |
| 4 | Hose Clamps | 003-9002 | 9 | Tip | 004-800067-PT | 2 |
| 5 | Straight Fitting | 003-A1414VB | 3 | Tip Strainers | 004-1203-100 | 6 |
| 6 | Check Valve | 004-1207VB | 3 | | | |
| 7 | Tee | 003-TT14SQ | 3 | | | |
| 8 | Straight Fitting | 003-A1414 | 6 | | | |
| 9 | 90 degree elbow | 003-SE14F | 3 | | | |
| 10 | Nozzle Cap | 004-4723 | 9 | | | |
| 11 | Nozzle Body | 004-4722 | 6 | | | |
| 12 | Hose | 002-9016 | 3ft | | | |



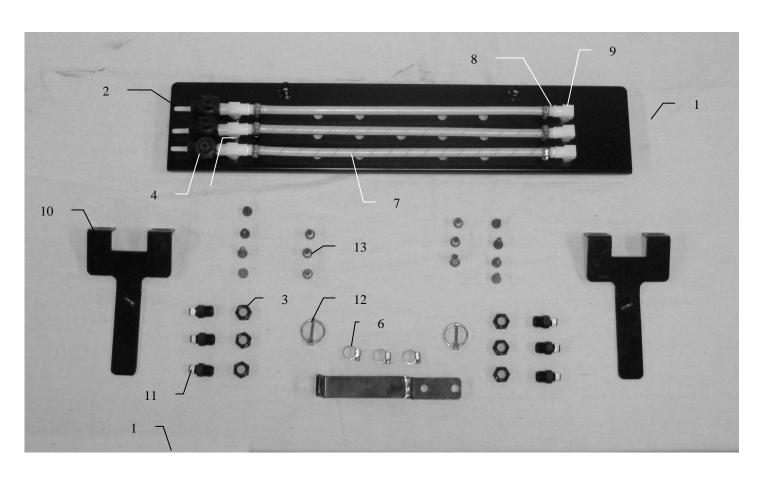
| Ref | Description | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|--------------|-----|--------------------|----------------|-----|
| 1 | Spray shield | 001-4811A | 1 | Tip | 004-TT11001VP | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT110015VP | 2 |
| 3 | Nozzle cap | 004-4723 | 9 | Tip | 004-TT11003VP | 2 |
| 4 | Check valve | 003-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 5 | Tee | 003-TT14SQ | 3 | | | |
| 6 | Hose | 002-9016 | 3 | | | |
| 7 | Straight fitting | 003-A1414 | 6 | | | |
| 8 | Hose clamp | 003-9002 | 9 | | | |
| 9 | Elbow | 003-SE14F | 3 | | | |
| 10 | Shield hanger | 001-4704A | 1 | | | |
| 11 | Shield hanger | 001-4704B | 1 | | | |
| 12 | Lynch pin | 008-4576 | 2 | | | |
| 13 | Nozzle body | 004-4722 | 6 | | | |
| 14 | Tip Strainers | 004-1203-100 | 6 | | | |



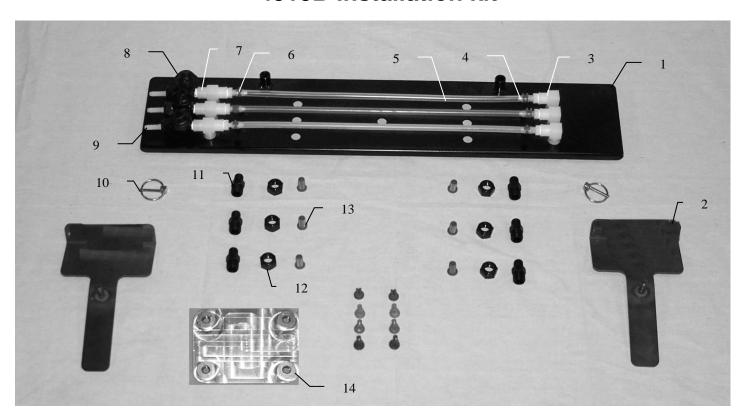
| Ref | Description | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|-------------|-----|--------------------|----------------|-----|
| 1 | Spray shield | 001-4704C | 1 | Tip | 004-TT11001VP | 2 |
| 2 | Straight fitting | 003-A1414VB | 3 | Tip | 004-TT110015VP | 2 |
| 3 | Nozzle cap | 004-4723 | 9 | Tip | 004-TT11003VP | 2 |
| 4 | Check valve | 003-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 5 | Tee | 003-TT14SQ | 3 | Tip Strainers | 004-1203-100 | 6 |
| 6 | Hose | 002-9016 | 3 | | | |
| 7 | Straight fitting | 003-A1414 | 6 | | | |
| 8 | Hose clamp | 003-9002 | 9 | | | |
| 9 | Elbow | 003-SE14F | 3 | | | |
| 10 | Shield hanger | 001-4704A | 1 | | | |
| 11 | Shield hanger | 001-4704B | 1 | | | |
| 12 | Lynch pin | 008-4576 | 2 | | | |
| 13 | Nozzle body | 004-4722 | 6 | | | |



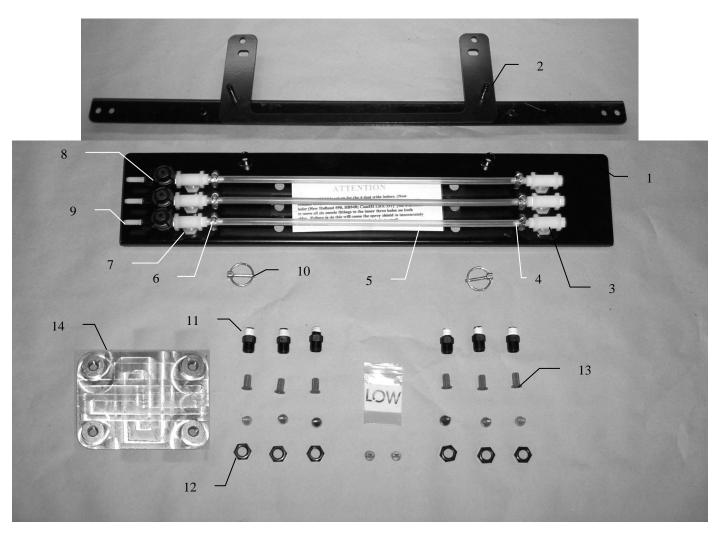
| <u>Ref</u> | <u>Description</u> | Part # | Qty | Description | Part # | <u>Qty</u> |
|------------|--------------------------|--------------|------------|--------------------|----------------|------------|
| 1 | Spray shield | 001-4431B | 1 | Tip | 004-TT11001VP | 2 |
| 2 | Shield holder | 001-4431KA | 1 | Tip | 004-TT110015VP | 2 |
| 3 | Mounting brackets | 001-4431KB | 2 | Tip | 003-TT11003VP | 2 |
| 4 | Straight fitting | 003-A1414VB | 3 | Tip | 004-800067-PT | 2 |
| 5 | Nozzle cap | 003-4723 | 9 | | | |
| 6 | Check valve | 004-1207VB | 3 | | | |
| 7 | Tee | 003-TT14SQ | 3 | | | |
| 8 | Hose | 002-9016 | 6 | | | |
| 9 | Straight fitting | 003-A1414 | 6 | | | |
| 10 | Tip Strainers | 004-1203-100 | 6 | | | |
| 11 | Elbow | 003-SE14F | 3 | | | |
| 12 | Nozzle body | 004-4722 | 6 | | | |
| 13 | Lynch pin | 008-4576 | 2 | | | |
| 14 | Hose clamp | 002-9002 | 9 | | | |
| 15 | End of bale sensor mount | 001-4648K | 1 | | | |
| NP | End of bale sensor mount | 001-4648K2 | 1 | | | |
| | (Krone 12130 only) | | | | | |
| NP | Not pictured | | | | | |
| | | | | | | |



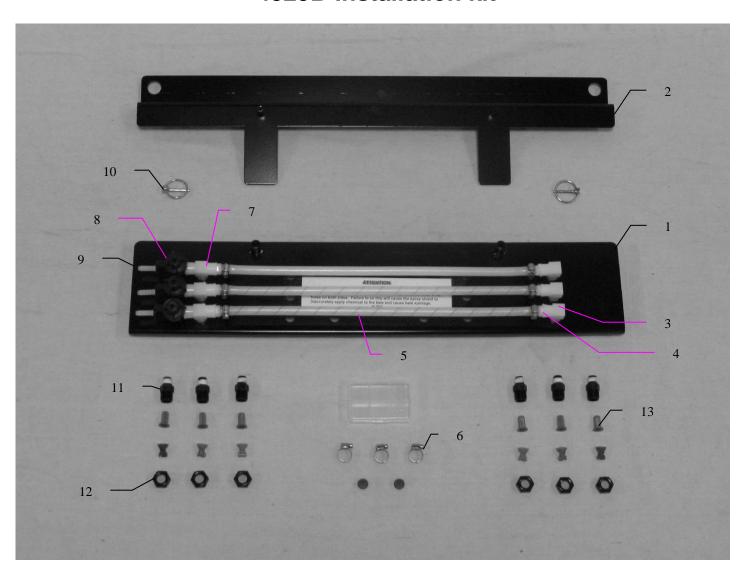
| Ref 1 2 | <u>Description</u> Spray shield Straight fitting | <u>Part #</u> 001-4435ES 003-A1414VB | $ \sqrt{\frac{\mathbf{Qty}}{1}} $ 14 | <u>Description</u> Tip Tip | <u>Part #</u> 004-TT11001VP 004-TT110015VP | <u>Qty</u> 2 2 |
|----------------------|--|--|--------------------------------------|----------------------------------|--|----------------------|
| 3 | Nozzle cap | 004-4723 | 9 | Tip | 004-TT11003VP | 2 |
| 4 | Check valve | 004-1207VB | 3 | Tip | 004-800067-PT | 2 |
| 5 | Tee | 003-TT14SQ | 3 | | | |
| 6 | Hose clamp | 003-9002 | 9 | | | |
| 7 | Hose | 002-9016 | 4 | | | |
| 8 | Straight fitting | 003-A1414 | 6 | | | |
| 9 | Elbow | 003-SE14F | 3 | | | |
| 10 | Shield holder | 001-4435K | 2 | | | |
| 11 | Nozzle body | 004-4722 | 6 | | | |
| 12 | Lynch pin | 008-4576 | 2 | | | |
| 13 | Tip strainers | 004-1203-100 | 6 | | | |
| 14 | End of bale sensor mount | 001-4648K | 1 | | | |
| NP | End of bale sensor mount (Krone 12130 only) | 001-4648K2 | 1 | | | |
| NP | Not pictured | | | | | |



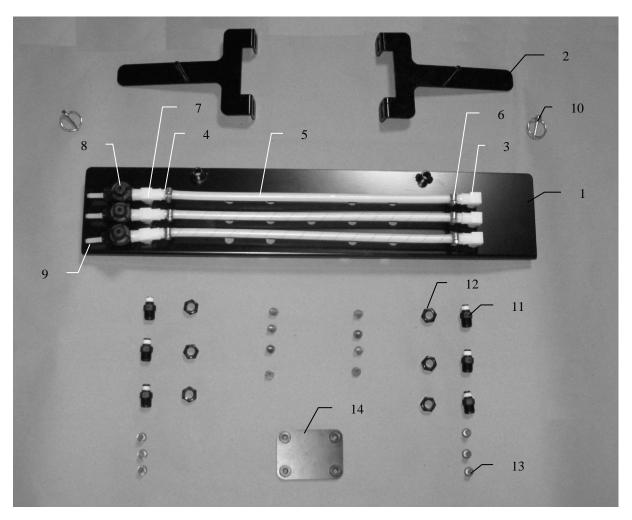
| <u>Qty</u> |
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| 2 |
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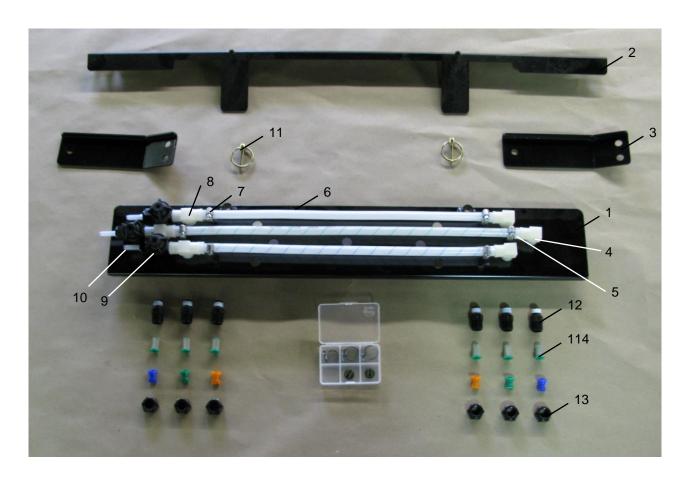
| Ref | <u>Description</u> | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|--------------|-----|--------------------|----------------|-----|
| 1 | Spray shield | 001-4435AS | 1 | Tip | 004-800067-PT | 2 |
| 2 | Shield holder | 001-4435J | 1 | Tip | 004-TT11001VP | 2 |
| 3 | Elbow | 003-SE14F | 3 | Tip | 004-TT110015VP | 2 |
| 4 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT11003VP | 2 |
| 5 | Hose | 002-9016 | 6 | | | |
| 6 | Hose clamp | 003-9002 | 9 | | | |
| 7 | Tee | 003-TT14SQ | 3 | | | |
| 8 | Check valve | 004-1207VB | 3 | | | |
| 9 | Straight fitting | 003-A1414VB | 3 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Nozzle body | 004-4722 | 6 | | | |
| 12 | Nozzle cap | 004-4723 | 9 | | | |
| 13 | Tip strainer | 004-1203-100 | 6 | | | |
| 14 | Star wheel spacer | 001-6707E | 2 | | | |



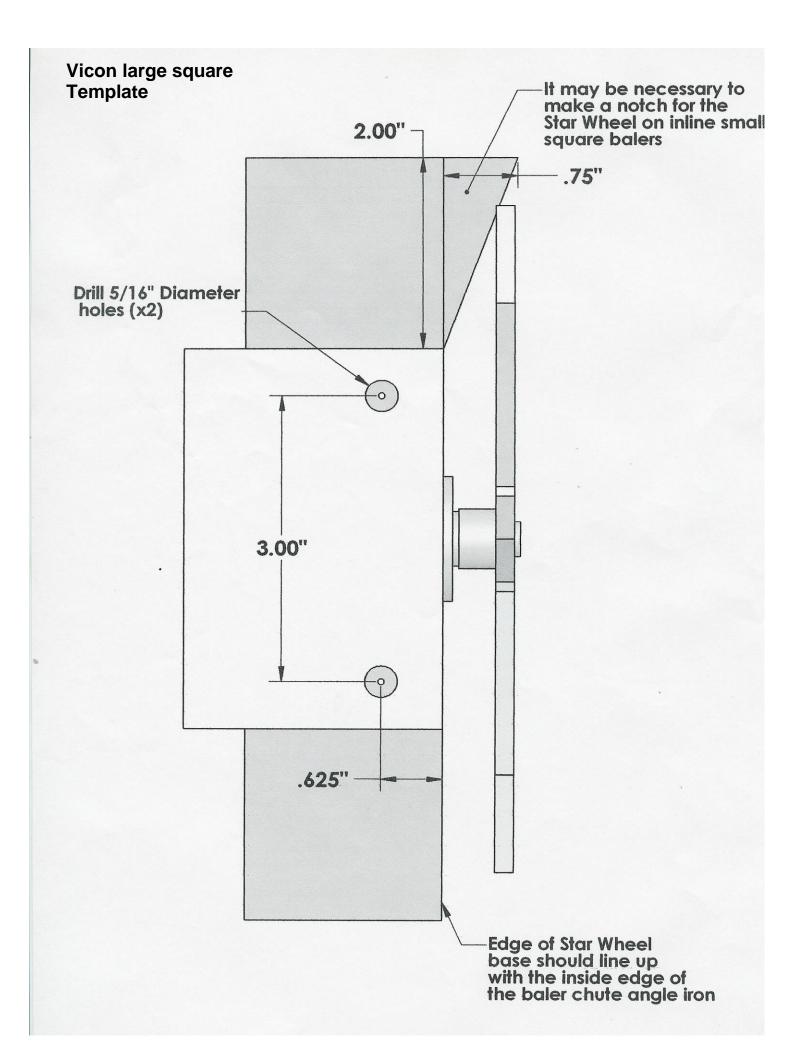
| Ref | <u>Description</u> | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|--------------|-----|--------------------|----------------|-----|
| 1 | Spray shield | 001-4435ES | 1 | Tip | 004-800067-PT | 2 |
| 2 | Shield holder | 001-4435EK | 1 | Tip | 004-TT11001VP | 2 |
| 3 | Elbow | 003-SE14SQ | 3 | Tip | 004-TT110015VP | 2 |
| 4 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT11003VP | 2 |
| 5 | Hose | 002-9016 | 6 | | | |
| 6 | Hose clamp | 003-9002 | 9 | | | |
| 7 | Tee | 003-TT14SQ | 3 | | | |
| 8 | Check valve | 004-1207VB | 3 | | | |
| 9 | Straight fitting | 003-A1414VB | 3 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Nozzle body | 004-4722 | 6 | | | |
| 12 | Nozzle cap | 004-4723 | 9 | | | |
| 13 | Tip strainer | 004-1203-100 | 6 | | | |
| | | | | | | |

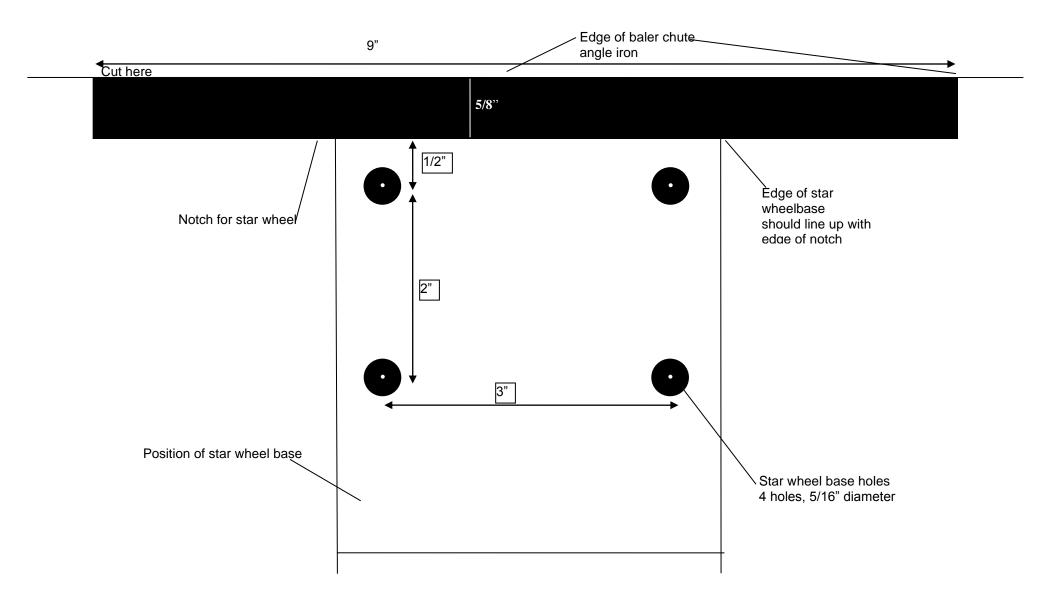


| Ref | Description | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|--------------|-----|--------------------|----------------|-----|
| 1 | Spray shield | 001-4435ES | 1 | Tip | 004-800067-PT | 2 |
| 2 | Shield holder | 001-4435HPC | 2 | Tip | 004-TT11001VP | 2 |
| 3 | Elbow | 003-SE14SQ | 3 | Tip | 004-TT110015VP | 2 |
| 4 | Straight fitting | 003-A1414 | 6 | Tip | 004-TT11003VP | 2 |
| 5 | Hose | 002-9016 | 6 | | | |
| 6 | Hose clamp | 003-9002 | 9 | | | |
| 7 | Tee | 003-TT14SQ | 3 | | | |
| 8 | Check valve | 004-1207VB | 3 | | | |
| 9 | Straight fitting | 003-A1414VB | 3 | | | |
| 10 | Lynch pin | 008-4576 | 2 | | | |
| 11 | Nozzle body | 004-4722 | 6 | | | |
| 12 | Nozzle cap | 004-4723 | 9 | | | |
| 13 | Tip strainer | 004-1203-100 | 6 | | | |
| 14 | Star wheel spacer | 001-6707E | 2 | | | |



| Ref | <u>Description</u> | Part # | Qty | Description | Part # | Qty |
|-----|--------------------|--------------|------------|--------------------|----------------|------------|
| 1 | Spray shield | 001-4435AS | 1 | Tip | 004-800067-PT | 2 |
| 2 | Shield holder | 001-4435XA | 1 | Tip | 004-TT11001VP | 2 |
| 3 | Holder bracket | 001-4435XB | 2 | Tip | 004-TT110015VP | 2 |
| 4 | Elbow | 003-SE14SQ | 3 | Tip | 004-TT11003VP | 2 |
| 5 | Straight fitting | 003-A1414 | 6 | | | |
| 6 | Hose | 002-9016 | 6 | | | |
| 7 | Hose clamp | 003-9002 | 9 | | | |
| 8 | Tee | 003-TT14SQ | 3 | | | |
| 9 | Check valve | 004-1207VB | 3 | | | |
| 10 | Straight fitting | 003-A1414VB | 3 | | | |
| 11 | Lynch pin | 008-4576 | 2 | | | |
| 12 | Nozzle body | 004-4722 | 6 | | | |
| 13 | Nozzle cap | 004-4723 | 9 | | | |
| 14 | Tip strainer | 004-1203-100 | 6 | | | |
| NP | Star wheel spacer | 001-6707E | 2 | | | |
| NP | Not pictured | | | | | |
| | | | | | | |





NOTES:

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. 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 5/22

For Technical assistance:

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