Installation Manual



110 Gallon Preservative Applicator Upgrade



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HayBoss G2 Model 665M Installation Table of Contents

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Introduction

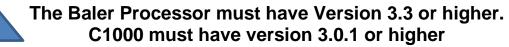
Thank you for purchasing a HayBoss G2 Model 665M Hay Preservative Applicator. This 665M applicator system has been designed to plug directly into the baler's ISOBUS and display on a C1000 monitor. As well as the option of operation through an Apple iPad (not included) using the Hay App. The 665M Preservative Applicator System offers these advantages:

- 1. Operation coordinated with baler operation
- 2. Less cab clutter providing better visibility
- 3. Ease of use with all information on one screen
- 4. Records kept together

The 665M HayBoss G2 Preservative Applicator System is designed to apply buffered propionic acid to the forage crop as it is baled. The 665M applicator will adjust the rate of application based on moisture and tonnage of the crop being harvested. This applicator is designed to apply AGCO buffered propionic acid.

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

System Requirements





*Made for iPad[®] 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

| BALER MAKE | MODEL | INSTALL KIT |
|------------|----------------------------------|-------------|
| AGCO | 7433-7444 | 030-4518B |
| Hesston | 7433-7434 roto-cutter | 030-4519B |
| | 2150 – 2190 | 030-4518B |
| | 2150 – 2190 roto-cutter | 030-4519B |
| | 2150 – 2190 packer cutter | 030-4527B |
| | 2250 & 2270 ProCut | 030-4542B |
| Challenger | LB33B – LB44B | 030-4518B |
| _ | LB33B – LB34B roto-cutter | 030-4519B |
| | LB33B – LB34B packer cutter | 030-4527B |
| Massey | 2140 – 2290 | 030-4518B |
| Ferguson | 2140 – 2290 with roto-cutter | 030-4519B |
| _ | 2150 & 2250 packer cutter | 030-4527B |
| | 2170XD & 2270XD with roto-cutter | 030-4530B |
| | 2370UHD | 030-4544B |

Installation Kit Reference Chart

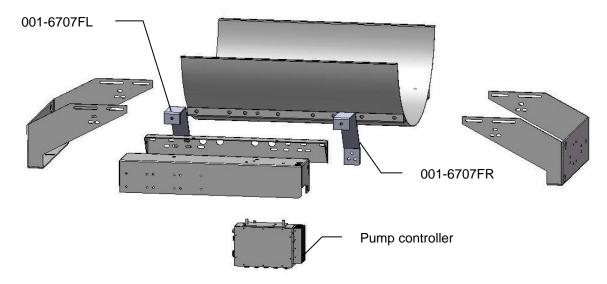
Tools Needed:

- Standard wrench set
- Crescent wrench
- Standard socket set
- Hose cutter

- Electric drill and bits
- Standard screwdriver
 Hammer
- Center punch
- Side cutter
- Standard nut driver set
- Metal cutting tools

Installation of Applicator

Installation of Pump Manifold



For 3 X 3 balers only

Locate parts bag 2. Install both saddle legs (001-6707C) onto the saddle (001-6707A) with eight 3/8" x 1-1/4" Bolts, locks and flat washers. Note: the slots in the legs will attach to the second and fourth weld nuts in from each end, of the saddle, on both sides.

- 1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the outside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten bolts until mounted on the baler
- Locate parts bag 6. Mount the pump plate support legs (001-6707FL & 001-6707FR) to the saddle legs using six 3/8" x 1" bolts, locks, flats, and nuts. Note: this will be the side that is opposite of the "V" notch that is in the sump cut out of the saddle
- 3. Attach the pump plate mounting bracket (001-4646C) to the pump plate support legs with two 3/8" x 1-1/4" bolts, locks, flats, and nuts.
- 4. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

For 3 X 4 and 4 x 4 balers only

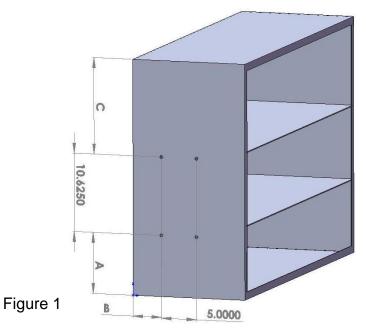
Locate parts bag 2. Install both saddle legs (001-6707C) onto the saddle (001-6707A) with eight 3/8" x 1-1/4" Bolts, locks and flat washers. Note: the slots in the legs will attach to the first and second weld nuts in from each end, of the saddle, on both sides.

- 1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the outside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten down bolts until mounted on the baler.
- Locate parts bag 6. Mount the pump plate support legs (001-6707FL & 001-6707FR) to the saddle legs using six 3/8" x 1" bolts, locks, flats, and nuts. Note: this will be the side that is opposite of the "V" notch that is in the sump cut out of the saddle
- 3. Attach the pump plate mounting bracket (001-4646C) to the pump plate support legs with two 3/8" x 1-1/4" bolts, locks, flats, and nuts.
- 4. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps

Installation of Dual Channel Processor (DCP)

Follow the instructions below to mount the Dual Channel Processor (DCP 006-6671LS) onto your specific baler model and type. The locations shown are the right twine box (looking at the back of the baler). Mark and drill the four 3/8" (10mm) holes and install DCP with two 5/16" x 1" bolts in the bottom two holes, two 5/16" x 1-1/4" bolts in the top two holes, locks, fender washers and hex nuts. Leave bolts loose. Mount the DCP cover (001-5650X) to the top two 5/16" x 1-1/4" bolts. It will fit between the mounting foot of the DCP and the sheet metal of the baler. Now tighten all bolts.



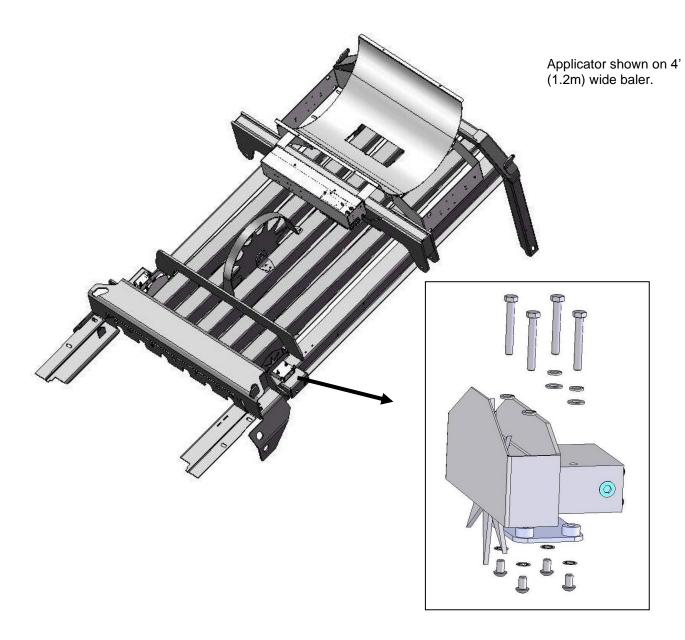
| Baler Type | Model number | Figure | А | в | с |
|-----------------|---|--------|-----|----|-----|
| AGCO Hesston | 7433 – 7444 2150 – 2190 2250 – 2290 | 2 | 12" | 3" | N/A |
| Challenger | LB 33B – 44B | 2 | 12" | 3" | N/A |
| Massey Ferguson | 2150-2190 2250-2290 | 2 | 12" | 3" | N/A |

Installation of Tank and Star Wheel Moisture Sensors

Tank Mounting-Locate parts bag C & 2. Mount the tank legs and saddle on the baler as shown below, just behind the compression arm. The tank legs bolt to the baler with six $1/2^{\circ} \times 1-3/4^{\circ}$ carriage head bolts, lock & flat washers, and hex nuts. The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler

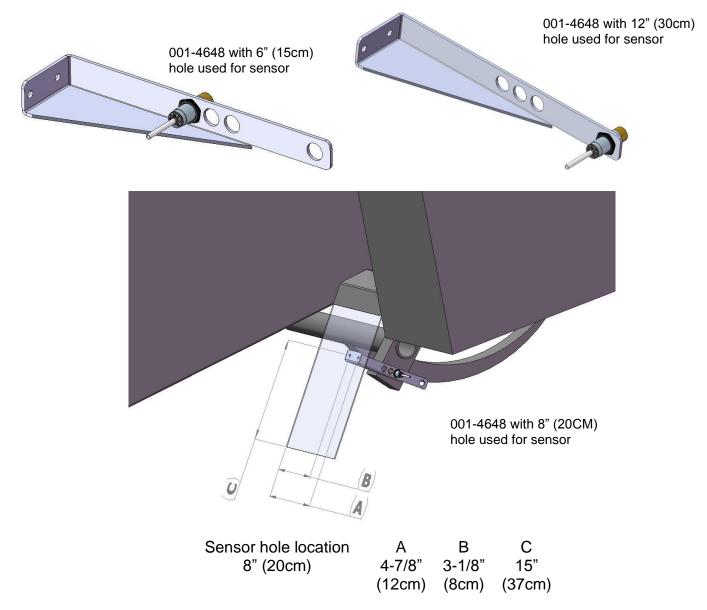
Star Wheel Mounting-The star wheels are to be mounted on top of the baler, just behind the knotters and <u>under the</u> <u>walkway</u> on both sides. The notch and holes for the star wheel are precut. If the star wheels are cutting the twine the sensors and notch must be moved out an additional 1/2" (13mm). Use the template in the back of the manual for hole spacing. Place the spacer plate (001-6707E) over the precut holes. Attach with 5/16" x $\frac{1}{2}$ " Allen head bolts and internal star washers from inside the bale chamber. Center the star wheels over the top of the spacer plate, place the twine diverters on top of the star wheel and attach with 5/16 x 2 $\frac{1}{4}$ hex bolt and lock washers. For remainder two holes per star wheel attach with 5/16 x 2 $\frac{1}{4}$ " hex bolt, lock washer, and one 5/16" thick flat washers per bolt. Verify that star wheels align with bale chamber before tightening down all hardware. The twine guard containing the bale rate sensors will be placed on the right side of the baler. See Step 8 for directions on how to hook-up the star wheel wires.



Installation of End of Bale Sensor

The end of bale sensor determines the position of the needles on the baler. When the needles cycle the sensor communicates this information to the Dual Channel Processor (DCP). This information is used for job records and will be used by the optional Bale Identification System. Follow the steps below for your baler to mount the sensor.

End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.

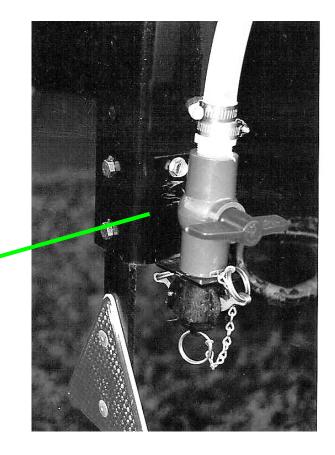


Mount the end of bale sensor bracket (001-4648) as shown in the 8" (20cm) hole position. Mark and drill two 3/8" (10mm) holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 8" (20cm) hole location, keep the sensor 1/4" (7mm)from the needle arm and tighten both nuts. Cut off excess metal past the sensor. Run the sensor cable up to the Dual channel Processor (DCP) and secure to the baler.

Installation of the Drain & Fill Line

- A. Locate parts bag 1.
- B. Thread 3/4" elbow fitting into end of tank.
- C. Run hose from the elbow down the frame to the bottom of the baler.
- D. Drill 1/4" (7mm) holes to accept the valve holder bracket and use 5/16" x 1" self-tapping screws.
- E. Connect valve assembly to other end of hose. Place hose clamps on both ends.
- F. Secure hose to frame using cable locks.
- G. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly.

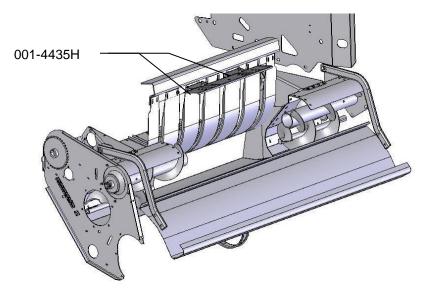




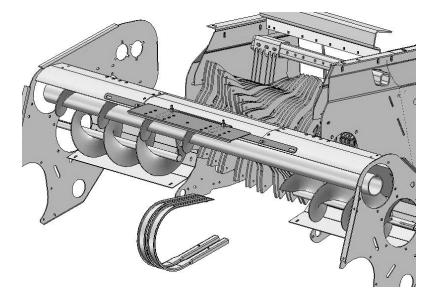
Installation of Spray Shield

The spray shield assembly is designed to spray the hay evenly as the baler picks it up. Sketches of the spray shield nozzle holders are shown below.

Installation of Spray Shield Kit 4518B



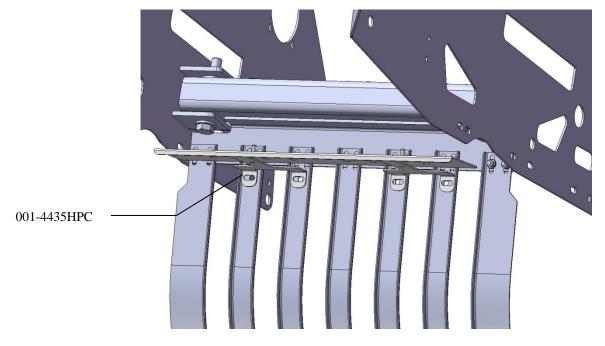
Remove the four bolts attached to the wrapper stripper plates as shown above. Replace with the four supplied $3/8^{\circ} \times 1-1/4^{\circ}$ carriage bolts, nuts, locks, and flat washers. Mount the spray shield holders (001-4435H) and loosely tighten down hardware. Install spray shield and secure with the two supplied lynch pins. Tighten all hardware. Use the inside slots on 3x3 balers and the outside slots on 3x4 and 4x4 balers.



Installation of Spray Shield Kit 4519B

Locate bottom hole on each side of center insert over top auger and bolt spray shield and mounting bracket into place using the 3/8" x 1-1/4" carriage bolts, nuts, locks, and flat washers. Use the inside slots on 3x3 balers and the outside slots on 3x4 and 4x4 balers.

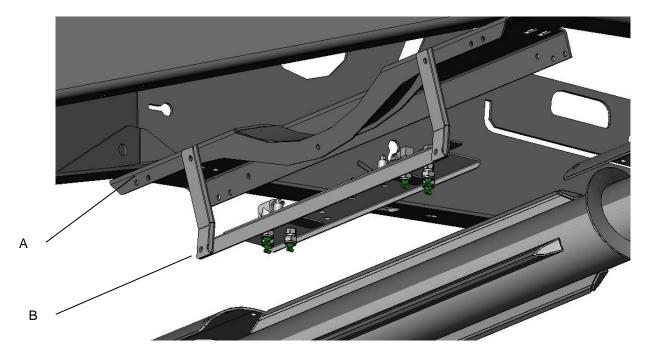
Installation of Spray Shield Kit 4527B



Mount the two spray shield mounting brackets (001-4435HPC) to the baler as shown above. Attach using four 3/8" x 1-1/4" bolts, flats, locks, and nuts. Mount the spray shield (001-4435ES) on top of the mounting brackets and secure with two lynch pins. Use the inside slots on 3x3 balers and outside slots on 3x4 and 4x4 balers.

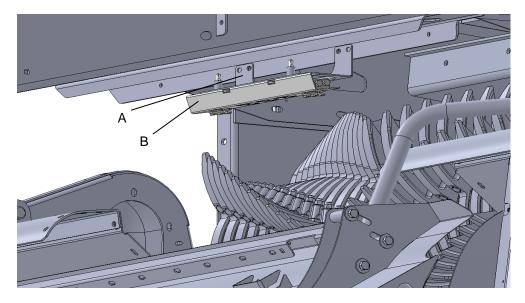
Installation of Spray Shield Kit 4530B

Locate the two bolts shown in figure A directly below the baler's flywheel. Connect the two mounting brackets (001-4435XB) to figure A using the existing hardware. Connect the mounting brackets to the shield holder (001-4435XA) using four 3/8" x 1" hex bolts, lock washers, and hex nuts. Install the spray shield assembly (001-4435AS) and secure with two supplied lynch pins.



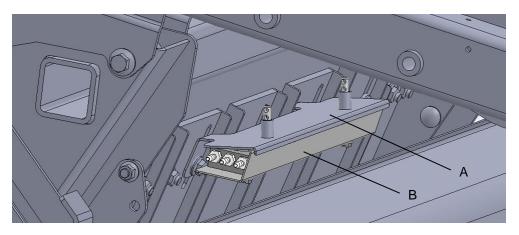
Installation of Spray Shield Kit 4542B

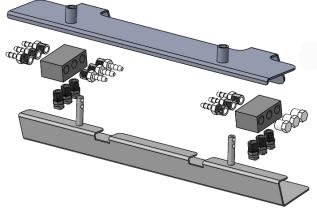
Locate the baler cross support bar below the baler's flywheel. Connect the mounting bracket (001-4435NAX) as shown in figure A. Connect the mounting bracket to baler using two 3/8" x 1 1/4" hex bolts, lock washers, and hex nuts. Install the spray shield assembly (001-4435NSX) as shown in figure B and secure with supplied lynch pins.



Installation of Spray Shield Kit 4544B

Locate the UHD spray shield holder (001-4435U). Connect the bracket to the wrapper extensions baler centered above the pickup as shown below (figure A) existing hardware, figure B. Connect the spray shield (001-4435NSX) and secure with two lynch pins (008-4576).





Plumbing

- A. Locate the three 1/4" hoses colored clear, blue, and green. The pumps will need to be connected to specific tips so the pump numbers are as follows: Pump 1 is closest to the filter bowl, pump 2 is in the middle, and pump 3 is the outside pump.
- B. Slide the jaco nut over the end the hose and insert the hose into the jaco fitting and tighten the jaco nut. Because all nozzles on the spray shield are different, the operator will need to install pump 1 to the orange tips using the clear hose, pump 2 to the green tips using the green hose and pump 3 to the blue tips using the blue hose.
- C. KEEP HOSE AWAY FROM: MOVING PARTS, SHARP METAL, AND HYDRAULIC LINES. WORKING TEMPERATURE FOR THE HOSE IS 140 °F AND UNDER.
- D. Tie the hose down at secure locations on the baler using the enclosed tie straps and cable clamps.

High and Low Output Tips

Your baler comes with two sets of tips: a high set and a low set. The High set comes factory installed.

-The High set will cover outputs of 84 to 632 lbs/hr (38-287 L/hr) (Approx. 21-63 tons/hr) Install these tips:

| Clear hose to orange tips | (004-TT11001VP) |
|---------------------------|------------------|
| Green hose to green tips. | (004-TT110015VP) |
| Blue hose to blue tips. | (004-TT11003VP) |

-The Low set will cover outputs of 44 to 400 lbs/hr (20 – 180 L/hr) ((Approx. 11-40 tons/hr) Install these tips:

Clear hose olive green tips. (004-800067PT) Green hose to orange tips. (004-TT11001VP) Blue hose to olive green tips. (004-TT110015VP)

If you switch tips be sure to change the tip output setting (in the software through the display) under Application Rate. Instructions to change the application rate are in the Operator's Manual under "Application Rate: Selecting High or Low tips."

Installation of iPad Integration Control

Locate a safe location in the cab of the tractor to place the iPad Integration Control (030-6672C). Recommended location is securely fastened out of the operators way in a location that is close enough to reach with the iPad cord.

Connect the Power / Communication harness (006-6650TM(E)) to the bottom of the receiver.

To operate the applicator, plug the iPad cord into the communication 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)

**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).

Bluetooth Receiver Lights

Pre-2020 applcaitors 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.

Red Light - The Bluetooth receiver has power

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



*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.

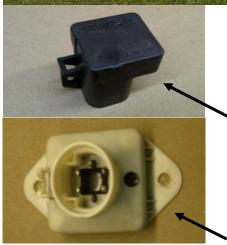
Please note that the use of this accessory with an Apple product may affect wireless performance.

Installation of Star Wheel and Bale Rate Harness

First, remove the cover from the star wheel block and use a 1/4" nut driver to remove the nut from the electronic swivel. Next, run the star wheel sensor wire through the black grommet and place the eye terminal on the star wheel sensor. Tighten the eye loop with the nut on the sensor and put the star wheel cover back on the base. Next, tighten the grommet to form a tight seal around the wire. The bale rate sensors will be factory installed on the right side twine guard in the correct position. The sensor with the longer sensor wire should say "FRONT", which indicates it should be placed in the front sensor hole. The sensor wire with the shorter wire should say "BACK." The tip of the sensor should be placed no more than 1/4" (7mm) away from the star wheel teeth and no less than 1/8" (3mm) from the star wheel teeth. Each sensor will have an LED light located on the sensor by the diverter. Once the unit is powered up spin the wheel and make sure that both led lights turn on and off. If they don't turn on and off, adjustments may need to be made.

Main Wire Harness and Baler Interface Harness Routing and Connections





A. Route harness 006-6650LS2 along this path or similar inside of the baler. Keep harnesses away from moving parts and hydraulic hoses. Secure with existing cable clamps or use cable ties. When all connections are made to the DCP secure wires as shown above to allow for water to be shed away from the DCP.

B. Under the chamber locate the Active Terminator from the end of the baler harness. It is located at the right rear corner of the baler frame. Attach Baler Interface Harness (006-6650VA) to that location. Reconnect Active Terminator to open port of that same harness (006-6650VA). If your baler does not have a Terminator at this location please call Harvest Tec.

If your baler has the White Terminating Resistor you will need to attach the Pre 2012 AGCO Integration Harness (006-6650VAX) to the end of the Baler Interface harness (006-6650VA). Please contact Harvest Tec for this harness. This style terminator may be next to the Baler's Main Processor.

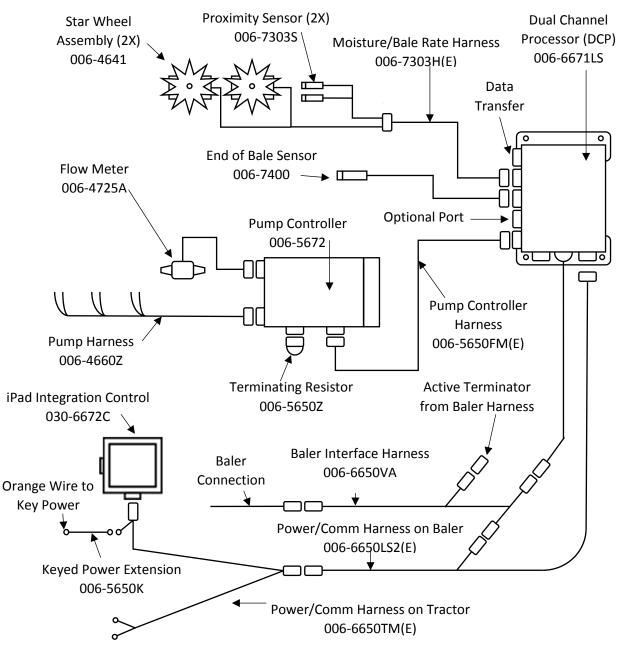


UHD Baler ISOBUS Integration Connection

Under the chamber locate the harness labeled (LHR-C72 ISOBUS Term). It is located at the right rear corner of the baler frame. Attach Baler Interface Harness (006-6650VAU) to that location

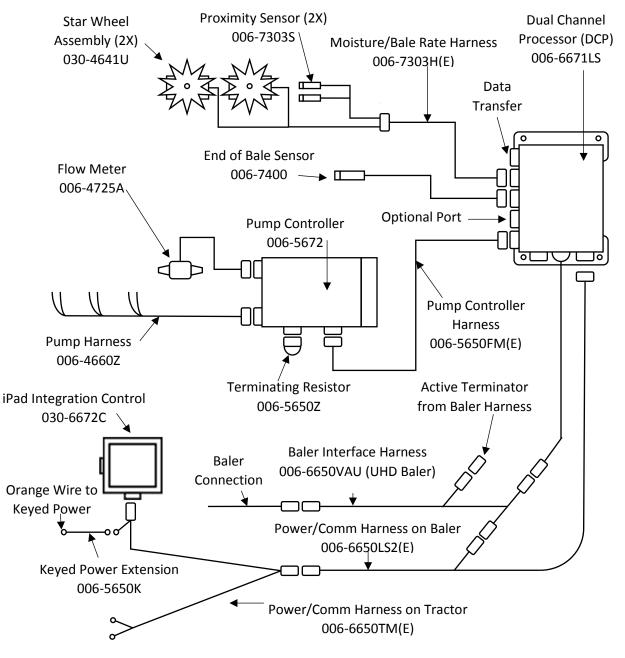
Wiring Diagram – Non UHD Baler

- A. The Baler Power/Communication Harness (006-6650LS2(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(E)) to the bottom (shorter side) of the DCP.
- B. Attach the Baler Interface Harness 006-6650VA or 006-6650VAU (UHD Baler) in between the short whip cable hardwired to the DCP and the main Power/Communication Harness (006-6650LS2(E)). Make sure Active Terminator removed from the top of the baler processor is attached to Baler Interface Harness 006-6650VA or the 006-6650VAU (UHD Baler).
- C. Install green terminator (006-5650Z) to the port labeled Modular Port on the Pump Controller (006-5672).
- D. Attach moisture and bale rate harness (006-7303H(E)) as well as the end of bale harness (006-7400) to the DCP (006-6671LS).
- E. Attach the Pump Control Harness (006-5650F3M(E)) between the Pump Controller (006-5672) and the DCP (006-6671LS).
- F. Connect Keyed Power Extension harness (006-5650K) to a keyed power source.
- G. Connect the iPad Integration Control (030-6672C) to the Communication Harness (006-6650TM(E)). Note: The Optional Port and the Data Transfer Port are not used in this application.



Wiring Diagram – UHD Baler Only

- A. The Baler Power/Communication Harness (006-6650LS2(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(E)) to the bottom (shorter side) of the DCP.
- B. Attach the Baler Interface Harness 006-6650VA or 006-6650VAU (UHD Baler) in between the short whip cable hardwired to the DCP and the main Power/Communication Harness (006-6650LS2(E)). Make sure Active Terminator removed from the top of the baler processor is attached to Baler Interface Harness 006-6650VA or the 006-6650VAU (UHD Baler).
- C. Install green terminator (006-5650Z) to the port labeled Modular Port on the Pump Controller (006-5672).
- D. Attach moisture and bale rate harness (006-7303H(E)) as well as the end of bale harness (006-7400) to the DCP (006-6671LS).
- E. Attach the Pump Control Harness (006-5650F3M(E)) between the Pump Controller (006-5672) and the DCP (006-6671LS).
- F. Connect Keyed Power Extension harness (006-5650K) to a keyed power source.
- G. Connect the iPad Integration Control (030-6672C) to the Communication Harness (006-6650TM(E)). Note: The Optional Port and the Data Transfer Port are not used in this application.



Pin Outs

Power/Comm Harness 006-6650TM 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 |

Power/Comm Harness 006-6650LS2 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 |

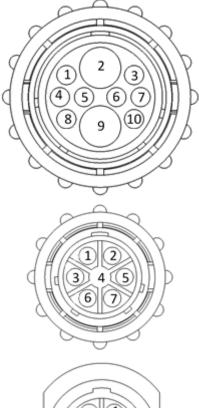
iPad Integration Control / BLE on Harness 006-6650TM

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

006-6650VA to DCP Whip

| Red | Can Power |
|--------|--|
| Black | Can Ground |
| Yellow | HT Can Hi |
| Gray | Shield |
| Green | HT Can Low |
| Orange | Can1 Hi |
| Blue | Can1 Low |
| | Black Yellow Gray Green Orange |







Pin Outs (continued)

006-6650VA to 006-6650LS2

| Pin 1 | Red | Can Power |
|-------|--------|------------|
| Pin 2 | Black | Can Ground |
| Pin 3 | Yellow | HT Can Hi |
| Pin 4 | Gray | Shield |
| Pin 5 | Green | HT Can Low |
| Pin 6 | N/A | |
| Pin 7 | N/A | |

006-6650VA Harness to Baler Plug

| 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 |

Main Power Connector on Dual Channel Processor (DCP)

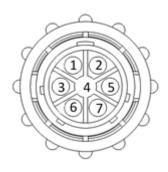
- Pin 1 Red +12V Power from tractor
- Pin 2BlackGround from tractorPin 3OrangeKeyed power

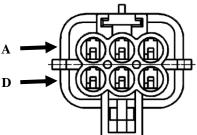
| Star Wheel and Bale Rate Sensor connector on DCP | | |
|--|--------|---------------------|
| Pin 1 | Blue | +12V Power |
| Pin 2 | Orange | Ground |
| Pin 3 | Black | Signal for sensor 1 |

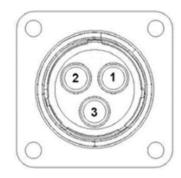
- Pin 4 White Signal for sensor 2
- Pin 5 N/A
- Pin 6 N/A
- Pin 7 N/A
- Pin 8VioletStar wheel input 1Pin 9BrownStar wheel input 2

End of Bale sensor on DCP

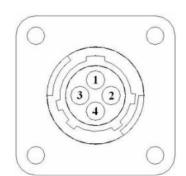
| Pin 1 | Brown | Sensor Power |
|-------|-------|--------------------|
| Pin 2 | Blue | Sensor Ground |
| Pin 3 | N/A | |
| Pin 4 | Black | Signal from Sensor |











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 | |

Pump Connection Colors

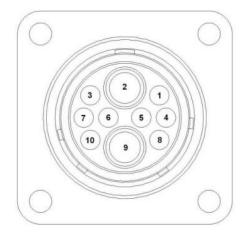
| Pin 1 | Black with Orange Stripe | Pump 1 Ground |
|---------------|---|------------------------------------|
| Pin 2 | Black with Green Stripe | Pump 2 Ground |
| Pin 3 | Black with Yellow Stripe Shield | Pump3 Ground |
| Pin 4 | N/A | |
| — ·· — | | |
| Pin 5 | Orange with Black Stripe | Pump 1 Positive |
| | Orange with Black Stripe Green with Black Stripe | Pump 1 Positive Pump 2 Positive |
| Pin 6 | | |

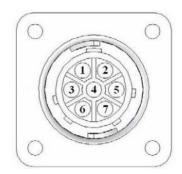
Flow Meter Connection on Pump Controller

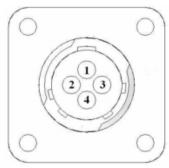
| Pin 1 | White | +5-12V Power |
|-------|-------|--------------|
| Pin 2 | Green | Ground |
| Pin 3 | Brown | Signal |
| Pin 4 | Black | Shield |

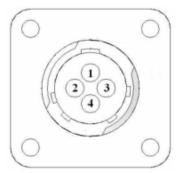
Connector for Crop Eyes on DCP

| 0011110 | | |
|---------|-------|------------|
| Pin 1 | Red | +12V Power |
| Pin 2 | Black | Ground |
| Pin 3 | White | Signal |
| Pin 4 | N/A | |
| | | |









Parts Breakdown Tank, Saddle and Legs 110 Gallon



Tank Lid Part #:005-9022E or 005-9208L

Tank-110 gallon Part #: 005-9208

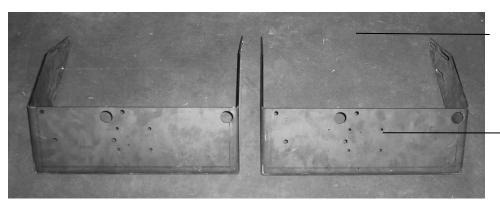
Hand Rail Part #: 001-6707HR

Tank Straps Part #: 001-4402B

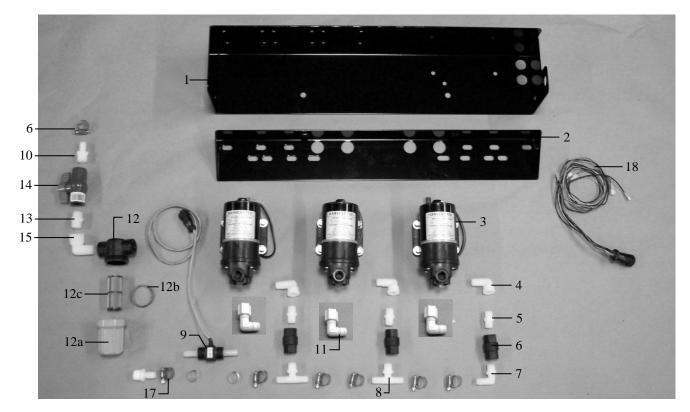
Tank Saddle Part #: 001-6707A Tank Fittings Part #: 005-9100

Legs for: AGCO, Hesston, Massey & Challenger

Saddle Legs Part # 001-6707C



Parts Breakdown for Pump Manifold



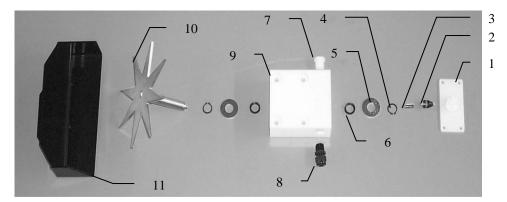
F

| Ref# | Description | 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 |
| 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

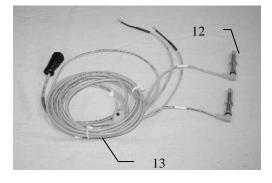
030-4646

Parts Breakdown for Star Wheel Moisture Sensors



| Ref | Description | Part# | <u>Qty</u> |
|-----|----------------------|-------------|------------|
| 1 | Block cover | 006-4641B | 2 |
| 2 | Electronic swivel | 006-4642A | 2 |
| 3 | Swivel insert | w/ Ref # 10 | 2 |
| 4 | Snap ring (per side) | 006-4641K | 2 |
| 5 | Washer (per side) | w/006-4641K | 2 |
| 6 | Dust seal (per side) | w/006-4641K | 2 |
| 7 | Plug fitting | 003-F38 | 2 |
| 8 | Wiring grommet | 008-0821A | 2 |

| <u>Ref</u> | Description | Part# | Qty |
|------------|----------------------------|-----------|-----|
| 9 | Star wheel block | 006-4641A | 2 |
| 10 | Star wheel sensor | 030-4641C | 2 |
| 11 | Twine guard-left for AGCO | 001-4645H | 1 |
| | Twine guard-right for AGCO | 001-4644H | 1 |
| | And with bale rate sensor | | |
| | holes in it | | |
| 1-10 | Star wheel assembly | 030-4641 | 2 |
| NP | Star wheel spacer | 001-6707E | 2 |



| Ref | Description | Part# | Qty |
|-----|--------------------|-----------|-----|
| 12 | Bale rate sensor | 006-7303S | 2 |
| 13 | Moisture and bale | 006-7303H | 1 |
| | rate harness | | |

696M Control Boxes and Harnesses

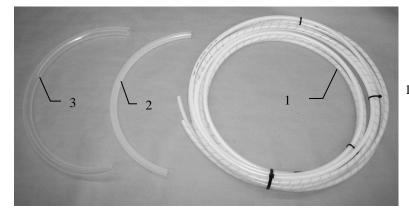


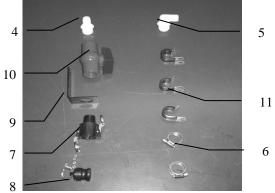
| Ref | Description | Part Number | Qty |
|-----|--|----------------|-----|
| 1 | Terminating Resistor Series | 006-5650Z | 1 |
| 2 | End of Bale Sensor Bracket | 001-4648 | 1 |
| 3 | End of Bale Sensor Series | 006-7400 | 1 |
| 4 | DCP Shield/Cover | 001-5650X | 1 |
| 5 | DCP Main Control LS 600 AUTO | 006-6671LS | 1 |
| 6 | Pump Controller | 006-5672 | 1 |
| 7 | Key Switch Wire | 006-5650K | 1 |
| 8 | DCP Baler Interface Harness | 006-6650VA | 1 |
| NP | UHD Baler Only DCP Baler Interface Harness | 006-6650VAU | 1 |
| 9 | DCP Tractor Harness | 006-6650TM(E) | 1 |
| 10 | Modular Power/Comm 10 FT Harness | 006-5650FM(E) | 1 |
| 11 | Dust Plugs | 006-5651PLUGS | 1 |
| 12 | DCP Baler Harness 30 FT | 006-6650LS2(E) | 1 |
| NP | USB Cord | 006-6672USBC | 1 |
| | AGCO 2100 Series Baler-Pre 2012 will need | 006-6650VAX | |



Part #: 030-6672C

Parts Breakdown for Hose and Drain Fill Line

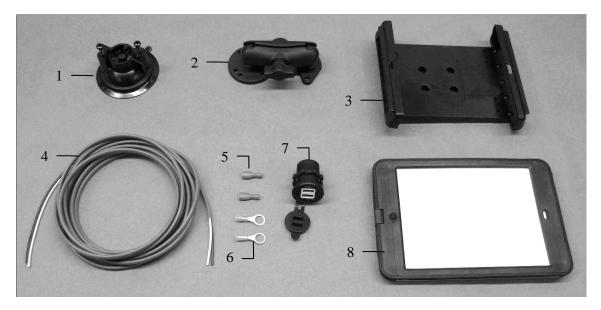




| <u>Ref</u> | Description | Part# | Qty | <u>Ref</u> | Description | Part# | Qty |
|------------|--------------------------------------|------------|------|------------|--------------------|-----------|-----|
| 1 | Triple weld hose (pumps to tips) | 002-9016 | 35ft | 7 | Female Coupler | 002-2204A | 1 |
| | | 002-9016B | 35ft | | | | |
| | | 002-9016G | 35ft | | | | |
| | Three hose assembly | 030-9016LS | 1 | | | | |
| 2 | 1/2" Hose (tank to filter) | 002-9001 | 6ft | 8 | Male Coupler | 002-2205G | 1 |
| 3 | 3/4" Hose (tank to drain/fill valve) | 002-9002 | 10ft | 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 | | | | |

25

Optional iPad Mini Mounting Kit (030-2014MK)



| <u>Ref</u> | Description | Part # | <u>Qty</u> |
|------------|--|-------------|------------|
| 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 |

Hardware

030-2014MK (Includes All Parts) 1

NP 4 amp fuse

Mounting Kit Assembly

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.

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

Optional iPad Display Kit (030-4670DK)

| 1 4 / | | | ••• | | 9 | | |
|-----------------|---|------------------------------|-----------------|-----------------|---|----------------------------|-----------------|
| <u>Ref</u> 1 | Description Suction cup mount | <u>Part #</u> 001-2012SCM | <u>Qty</u> 1 | <u>Ref</u> 7 | <u>Description</u> iPad Mini Charger 12V | <u>Part #</u> 001-2012P | <u>Qty</u> 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 | Mou | nting Kit Assembly | 030-4670[| DK |

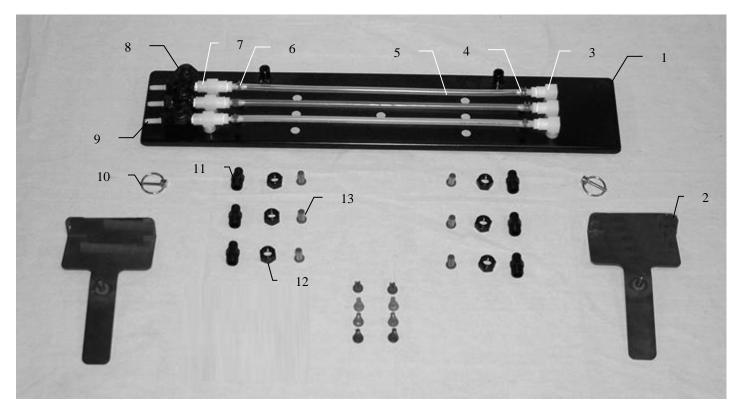
(Includes All Parts)

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 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).

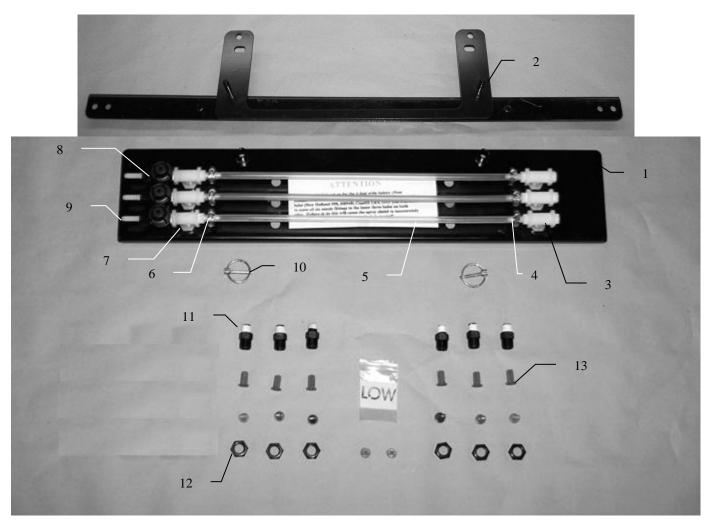
NOTE: This plug is not designed to charge two iPads. System damage could occur if this is attempted. System will charge a mobile phone and iPad simultaneously without problem.

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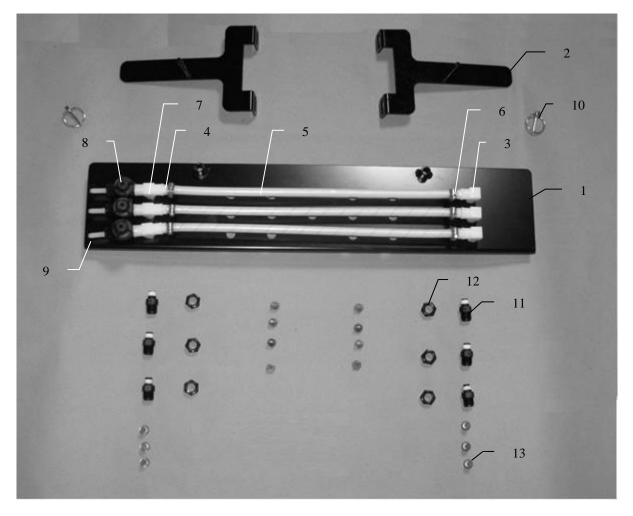


| <u>Ref</u> | Description | Part # | Qty |
|------------|--------------------|--------------|-----|
| 1 | Spray shield | 001-4435ES | 1 |
| 2 | Shield holder | 001-4435H | 2 |
| 3 | Elbow | 003-SE14F | 3 |
| 4 | Straight fitting | 003-A1414 | 6 |
| 5 | Hose | 002-9016 | 6 |
| 6 | Hose clamp | 003-9002 | 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 |

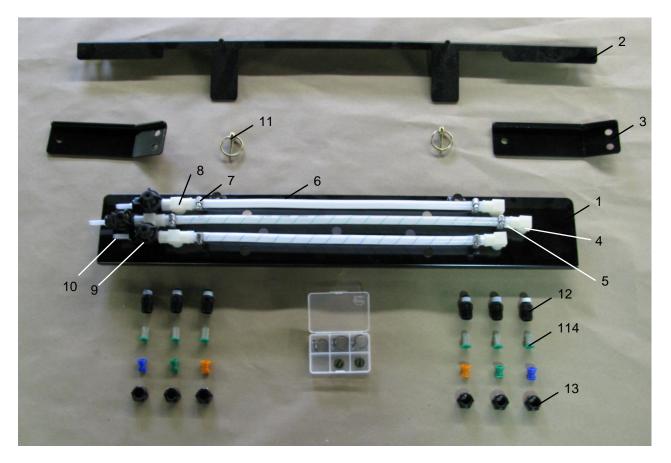
| Description | Part # | Qty |
|--------------------|----------------|-----|
| Tip-Olive Green | 004-800067-PT | 2 |
| Tip-Orange | 004-TT11001VP | 2 |
| Tip-Green | 004-TT110015VP | 2 |
| Tip-Blue | 004-TT11003VP | 2 |



| Ref | Description | Part # | Qty | Description | Part # | <u>Qty</u> |
|-----|--------------------|--------------|-----|--------------------|----------------|------------|
| 1 | Spray shield | 001-4435AS | 1 | Tip-Olive Green | 004-800067-PT | 2 |
| 2 | Shield holder | 001-4435J | 1 | Tip-Orange | 004-TT11001VP | 2 |
| 3 | Elbow | 003-SE14F | 3 | Tip-Green | 004-TT110015VP | 2 |
| 4 | Straight fitting | 003-A1414 | 6 | Tip-Blue | 004-TT11003VP | 2 |
| 5 | Hose | 002-9016 | 6 | | | |
| 6 | Hose clamp | 003-9002 | 9 | | | |
| 7 | Тее | 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 | | | |

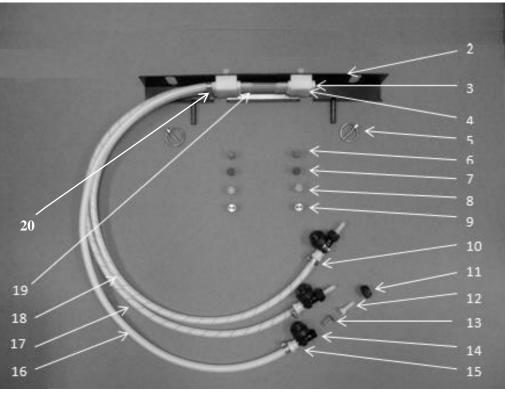


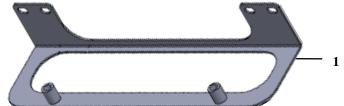
| <u>Ref</u> | Description | Part # | <u>Qty</u> | Description | Part # | Qty |
|------------|--------------------|--------------|------------|--------------------|----------------|-----|
| 1 | Spray shield | 001-4435ES | 1 | Tip-Olive Green | 004-800067-PT | 2 |
| 2 | Shield holder | 001-4435HPC | 2 | Tip-Orange | 004-TT11001VP | 2 |
| 3 | Elbow | 003-SE14SQ | 3 | Tip-Green | 004-TT110015VP | 2 |
| 4 | Straight fitting | 003-A1414 | 6 | Tip-Blue | 004-TT11003VP | 2 |
| 5 | Hose | 002-9016 | 6 | | | |
| 6 | Hose clamp | 003-9002 | 9 | | | |
| 7 | Тее | 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 1 2 3 4 5 6 7 8 9 10 | Description Spray shield Shield holder Holder bracket Elbow Straight fitting Hose Hose clamp Tee Check valve Straight fitting Lynch pin | Part # 001-4435AS 001-4435XA 001-4435XB 003-SE14SQ 003-A1414 002-9016 003-9002 003-TT14SQ 004-1207VB 003-A1414VB 008-4576 | Qty 1 2 3 6 9 3 3 3 2 |
|--|--|--|--|
| 5 | Straight fitting | 003-A1414 | 6 |
| 6 | Hose | 002-9016 | 6 |
| 7 | Hose clamp | 003-9002 | 9 |
| 8 | Тее | 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 NP | Star wheel spacer Not pictured | 001-6707E | 2 |

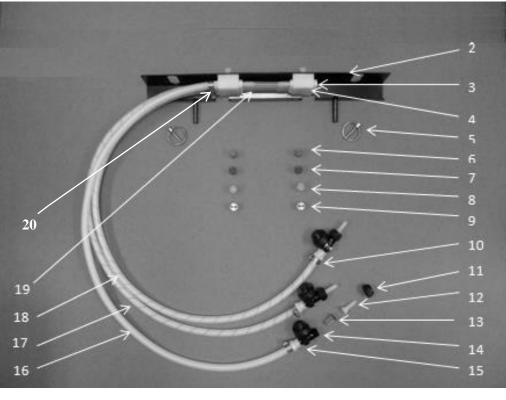
| Description | Part # | Qty |
|--------------------|----------------|-----|
| Tip-Olive Green | 004-800067-PT | 2 |
| Tip-Orange | 004-TT11001VP | 2 |
| Tip-Green | 004-TT110015VP | 2 |
| Tip-Blue | 004-TT11003VP | 2 |





| <u>Ref</u> | Description | Part Number | <u>Qty</u> | <u>Ref</u> | Description | Part Number | <u>Qty</u> |
|------------|--------------------|----------------|------------|------------|---------------------|--------------|------------|
| 1 | Holder | 001-4435NAX | 1 | 11 | Сар | 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 | 2ft |
| 10 | Hose Clamp | 003-9002 | 15 | 20 | Fitting | 003-A1414 | 9 |
| | | | | NP | Mini Plano Box | 008-9001 | 1 |
| | | | | NP | EOB Bracket | 001-4648K | 1 |
| | | | | | | | |

- -





| <u>Ref</u> | Description | Part Number | Qty | Ref | Description | Part Number | Qty |
|------------|--------------------|----------------|-----|-----|---------------------|--------------|-----|
| 1 | Holder | 001-4435U | 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 | 1ft |
| 10 | Hose Clamp | 003-9002 | 15 | 20 | Fitting | 003-A1414 | 9 |
| | | | | NP | Mini Plano Box | 008-9001 | 1 |

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, Inc. 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 5/22

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

PHONE: 715-386-9100 1-800-635-7468 FAX: 715-381-1792 Email: info@harvesttec.com