## Installation Manual

## MODEL 647A, 647C & 649A 25 & 55 Gallon Automatic Preservative Applicators



**DECLARATION OF INCORPORATION** 

# CE

MANUFACTURER:

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

#### REPRESENTATIVE ESTABLISHED IN COMMUNITY: Profitable Farming Company Middle Barlington, Roborough Winkleigh, Devon, EX19 8AG ENGLAND

The person above certifies and declares that:

VIRTUAL MACHINE: Equipment mounted on a farm press and for the application of innoculants onto forage crops. MODEL: 647-647C-649-18-INST Imp&Metric BRAND: Harvest Tec SERIAL NUMBER:

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

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

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

Richard Snell, President, Profitable Farming Company

Signed on May 21, 2011: Middle Barlington, Roborough Winkleigh, Devon, EX19 8AG

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#### Introduction

Thank you for purchasing a Harvest Tec Model 663 Moisture Monitor System. This 663 Moisture Monitoring System has been designed to be operated through an Apple iPad (not included) using the Hay App. As well as the option to plug directly into most tractors that have an ISOBUS Monitor. The 663 Moisture Monitoring System offers these advantages by operating through an Apple iPad:

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

The 663 Hay Preservative Applicator System is designed to apply buffered propionic acid to the forage crop as it is baled and will adjust the rate of application based on moisture and tonnage of the crop being harvested. This applicator is designed to apply Harvest Tec buffered propionic acid.

#### **System Requirements**

#### \*Made for iPad<sup>®</sup> 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

If choosing to operate the unit though the ISOBUS monitor, part number 006-6670A will need to be ordered through your local equipment dealer.

| Baler make            | Baler Model                        | Model | Installation kit | Tank size |
|-----------------------|------------------------------------|-------|------------------|-----------|
| Case IH               | All RBX & RB series four feet wide | 647   | 447-SO           | 25 gallon |
| Case IH               | All RBX & RB series five feet wide | 647   | 447-SO           | 55 gallon |
| New Holland           | All BR balers four feet wide       | 647   | 447-SO           | 25 gallon |
| New Holland           | All BR balers five feet wide       | 647   | 447-SO           | 55 gallon |
| AGCO                  | 5446 – 5556 & 2646 - 2766          | 649   | 4508B            | 55 gallon |
| AGCO                  | 2846-2856A                         | 649   | 4524B            | 55 gallon |
| Challenger            | RB 46 - 56                         | 649   | 4508B            | 55 gallon |
| Challenger            | RB453 - RB563A                     | 649   | 4524B            | 55 gallon |
| Hesston               | 800 and 900 series round balers    | 649   | 4508B            | 55 gallon |
| John Deere            | 582 & 854 round balers             | 649   | 4503B            | 55 gallon |
| John Deere            | 5, 6, and 7 series round balers    | 649   | 4504B            | 55 gallon |
| John Deere            | 8 & 9 series round balers          | 649   | 4517B            | 55 gallon |
| John Deere            | 0 Series Balers                    | 649   | 4547B            | 55 gallon |
| Massey Ferguson       | 2646 – 2766                        | 649   | 4508B            | 55 gallon |
| Massey Ferguson       | 2846-2856A                         | 649   | 4524B            | 55 gallon |
| McHale                | V660, F540, F550, F560             | 649   | 4526B            | 55 gallon |
| Vermeer               | 604M and 605M round balers         | 649   | 4505B            | 55 gallon |
| Roll Belt Round Baler | RBX & RB series 4 &5 foot wide     | 647C  | N/A              | 55 gallon |

#### Model Reference Chart

Attention: For all New Holland BR and Case IH RB-RBX balers--If you have models without the net wrap option or with the Bale Slice option please contact Harvest Tec for additional parts.

#### **Tools Needed**

Standard wrench set Side cutter Hammer Standard socket set Hose cutter Metal cutting and drilling tools Standard screw driver set Crescent wrench Center punch

#### Installation of Applicator

#### Installation of Tank & Saddle

Place tank (005-9203) onto saddle (001-4703). Make sure side tank fitting is placed to the baler's left side when looking at it from the front. Attach straps (001-4402) to saddle using 5/16" x 4" bolts. Make sure to double nut all four bolts.

#### Model 647

#### 55 Gallon Model Only (100 liter)

Locate parts bag 14. Locate the cross support (001-4445B) on the front shelf of the balers pictured below. It will butt up against the step-up on the shelf and line up flush with its upper surface. Mark and drill a 9/16" (14mm) hole on each side sheet to hold the cross piece in place with two 1/2" x 1-1/4"bolts, fender, and lock washers provided.

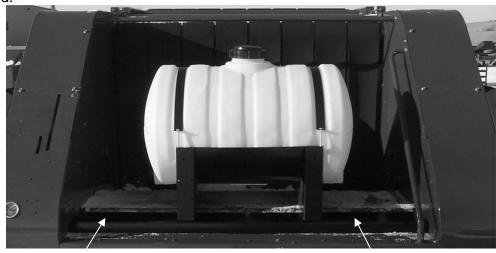
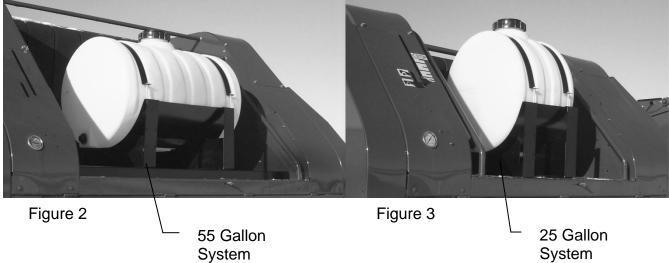


Figure 1



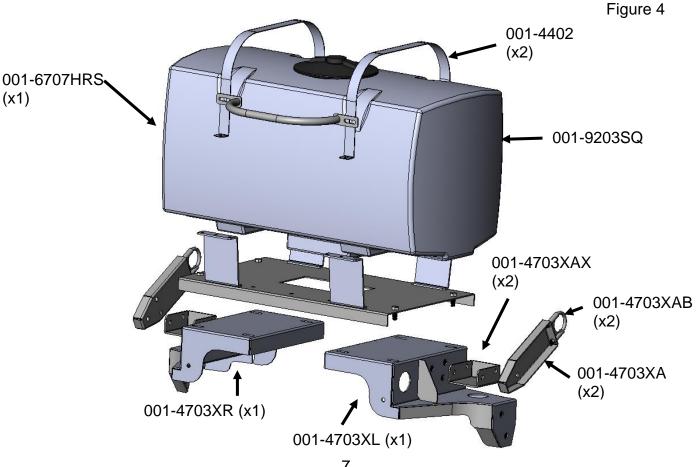
Locate parts bag 15. Locate the tank and frame on the shelf. Center it from side to side. On 55 gallon models 200 liter), the tank positioning going from front to back is set by lining up the front base holes with the holes in the cross support. On 25 gallon models (100 liter), line up the front tank legs with the front of the baler's shelf. Mark and drill all base holes with a 9/16" (14mm) drill. Use the 1/2" x 1-1/4" bolts, lock washers, fender washers, and nuts provided to secure the frame.



#### Model 647C

#### Installation of Tank and Saddle

- 1. Locate the left saddle leg, 001-4703XL, and mount to left side sheet of baler using two 1/2"x 1-1/2" hex bolts, 1/2" lock washers, and 1/2" flat washers. Do not fully tighten.
- 2. Locate the right saddle leg, 001-4703XR, and mount to right side sheet of baler using two 1/2"x 1-1/2" hex bolts, 1/2" lock washers, and 1/2" flat washers. Do not fully tighten.
- 3. Roll Belt 560 / 460 and RB465 Installation only! Locate the two anchor extension brackets, 001-4703XAX, and attach one extension bracket to the outside of each leg with two 1/2"x 1-1/2" hex bolts, 1/2" lock washers, and 1/2" flat washers.
- 4. Locate the anchor bracket, 001-4703XA, and attach to the side of the extension bracket, 001-4703XAX for 4 X 6 balers (or 001-4703XR and 001-4703XL for other balers) using two 1/2" x 1-1/2" hex bolts, 1/2" flat washers, 1/2" lock washers, and 1/2" hex nuts. Do not fully tighten. Note that 001-4703XA should be positioned so it is angled toward the round pipe that runs across the width of the baler behind the legs. Repeat procedure for the opposite side.
- 5. Locate the u-bolts, 001-4703XAB, and attach the 001-4703XA brackets to the round pipe running across the baler. Tighten the u-bolts evenly. \*\*Due to minimal clearance between the anchor bracket and the side sheet, use a deep socket and long extension on a ratchet to tighten u-bolts.
- 6. With the u-bolts, 001-4703XAB, securely tightened around the round pipe, tighten the bolts connecting the anchor brackets, 001-4703XA, to the saddle legs, 001-4703XL & 001-4703XR.
- 7. Tighten the hardware attaching the saddle legs, 001-4703XL & 001-4703XR, to side sheets of the baler.
- 8. Install the tank assembly (tanks, straps, handrail, and saddle pan) on the legs. Secure the saddle pan, 001-4703X, to the saddle legs with 1/2" flat washer, 1/2" lock washer, and 1/2" hex nut from the bottom side in four locations. Tighten hardware.



#### \*\*001-4703XAX (x2) are <u>ONLY</u> used on 4x6 models

#### 4x5 Baler Expanded



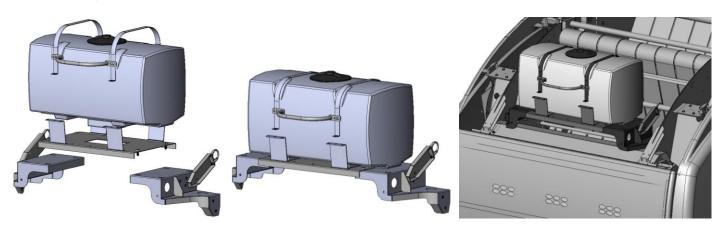
4x6 Baler Expanded



#### 5x5 Baler Expanded



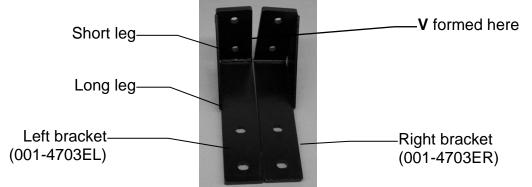
#### **5x6 Baler Expanded**



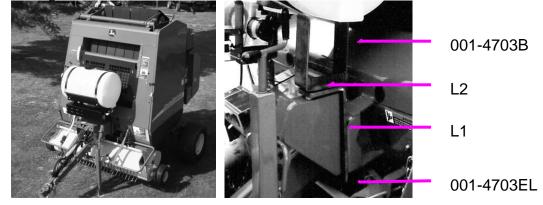
#### Model 649

#### Install kit 4503B on John Deere 582 Balers

The mounting brackets are L-shaped. There is a right and left bracket enclosed in the applicator. This can be determined by setting the right and left bracket next to each other with the longer legs laying flat toward you and the shorter legs pointing up. The short leg of the bracket will either touch each other or angle away from each other. Place the brackets so they angle away from each other and form a **V** (see below). The bracket on the left is the left bracket and the bracket to the right is the right bracket.

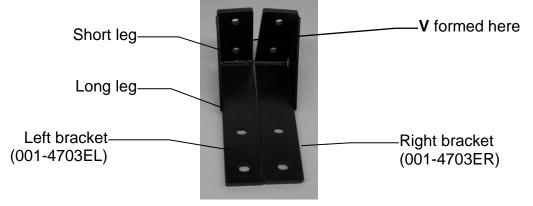


Before installing the brackets, the baler tongue must be supported by some means other than the jack (ex. hooked to a tractor). Looking at the baler from the front, the right bracket bolts to the left side of the hitch using two M16 x 55mm bolts, washers, lock washers, and nuts (labeled **L1** below). Short leg of brackets will point toward the front of the hitch. Next remove the two bolts holding the jack assembly to a baler (labeled **L2** below). Insert the right L-bracket between the jack assembly and baler. Bolt together with two M16 x 70mm bolts. Attach the tank legs (001-4703B) to the tank saddle with  $3/8" \times 1"$  bolts, locks, and flat washers. Attach the saddle legs to the mounting bracket with 1/2"x 1-1/2" bolts, locks, nuts and flat washers.



#### Install kit 4503B on John Deere 854 Balers

The mounting brackets are L-shaped. There is a right and left bracket enclosed in the applicator. This can be determined by setting the right and left bracket next to each other with the longer legs laying flat toward you and the shorter legs pointing up. The short leg of the bracket will either touch each other or angle away from each other. Place the brackets so they angle away from each other and form a V (see below). The bracket on the left is the left bracket and the bracket to the right is the right bracket.



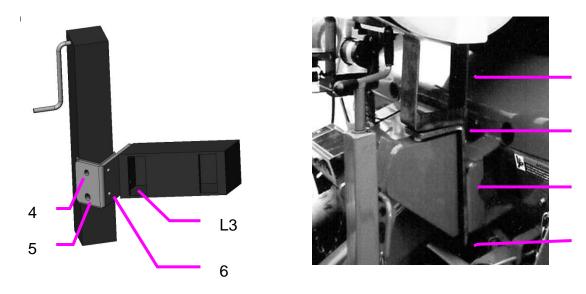
Before installing the brackets, the baler tongue must be supported by some means other than the jack (ex. hooked to a tractor). Looking at the baler from the front, the right bracket bolts to the left side of the hitch using two M16 x 55mm bolts, washers, lock washers, and nuts (labeled **L1** below). Short leg of brackets will point toward the front of the hitch. Next remove the two bolts holding the jack assembly to a baler (labeled **L2** below). Remove the jack from the mounting bracket and install jack extension (001-4703EXT) as shown below (3). Use the supplied hardware to mount the jack to the extension (*hole 4* M16x2mm) (*hole 5* M20x2.5mm) (*hole 6* M12 x 1.75mm), and use the factory jack hardware and mounting plates to mount the extension to the baler. Insert the right L-bracket between the jack assembly and baler. Bolt together with two M16 x 70mm bolts. Attach the tank legs (001-4703B) to the tank saddle with 3/8" x 1"bolts, locks, and flat washers. Attach with 1/2" x 1/1/2" bolts, locks, nuts and flat washers.

001-4703B

001-4703EL

L2

L1



#### Install kit 4504B, 4517B & 4547B

Attach legs part #001-4703B to the tank saddle with 3/8" x 1" bolts, lock and flat washers. The L-shaped brackets part #001-4703DL and #001-4703DR will attach to the baler with M12 x 45 mm bolts. Three bolts will be used per side on 8 Series balers and two bolts per side with the 9 Series balers. When both sides have been attached place the legs on top of the bracket. The legs will attach to the brackets with 1/2" x 1-1/2"bolts, nuts, flat, and lock washers. Install both sides of legs before tightening down any of the bolts.



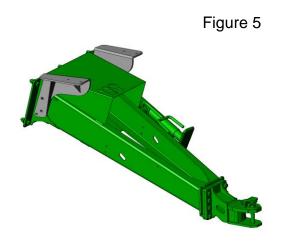


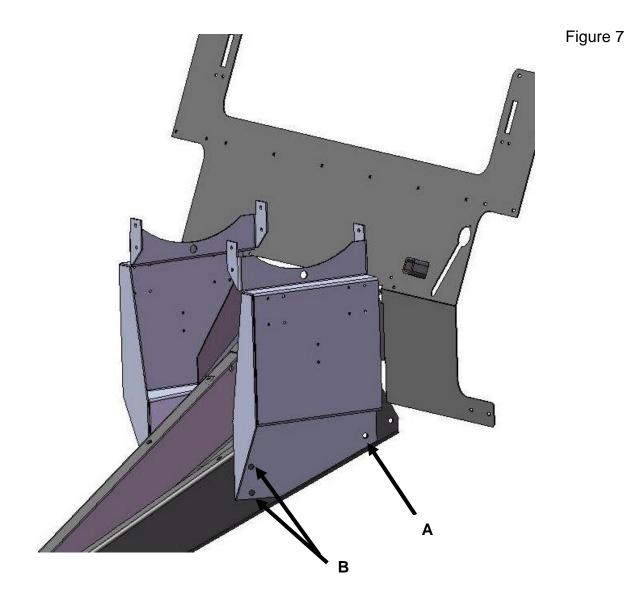
Figure 6





#### Installation kit 4505B

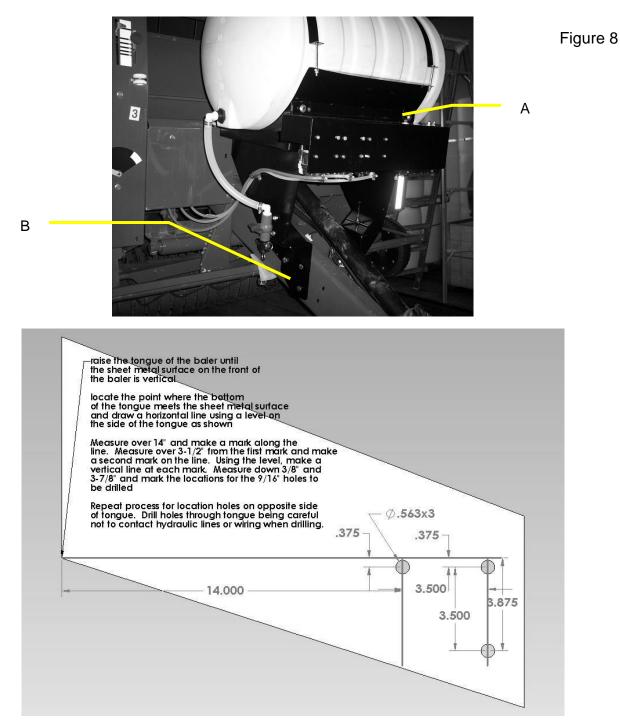
Locate legs part #001-4703FL and part #001-4703FR. These legs will attach to the tongue of the baler using the one existing hole per side (A) as shown in Figure 7. Loosely attach the legs to (A) and mark the two holes that will need to be drilled (B) with a 9/16" bit. Attach legs loosely using the two existing bolts and lock nuts and four 1/2" x 1-1/4" bolt, nuts, locks and flat washers. Install tank and saddle assembly. Tighten all leg hardware after the tank has been installed.



#### Model 649

#### Install kit 4508B

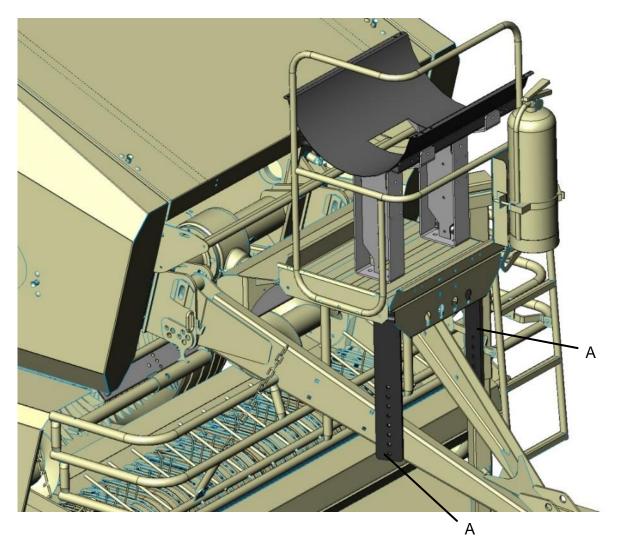
Locate legs part #001-4703K and part #001-4703L. Use the diagram below to locate the placement of the holes you will need to drill. You will need to drill three 1/2" (13mm) holes per side of tongue. After drilling the holes you will need to loosely attach the legs to the tongue with 1/2' x 2" bolts with locks, nuts, and flat washers. (Figure 8) Attach the (A) saddle (001-4703) and tank assembly on top of the legs using 3/8" x 1" bolts and lock washers. (B) Do not tighten down 3/8" bolts all the way. Once saddle is attached to legs tighten down bolts and nuts attaching the legs to the tongue. Now tighten bolts attaching saddle to legs.



#### Model 649

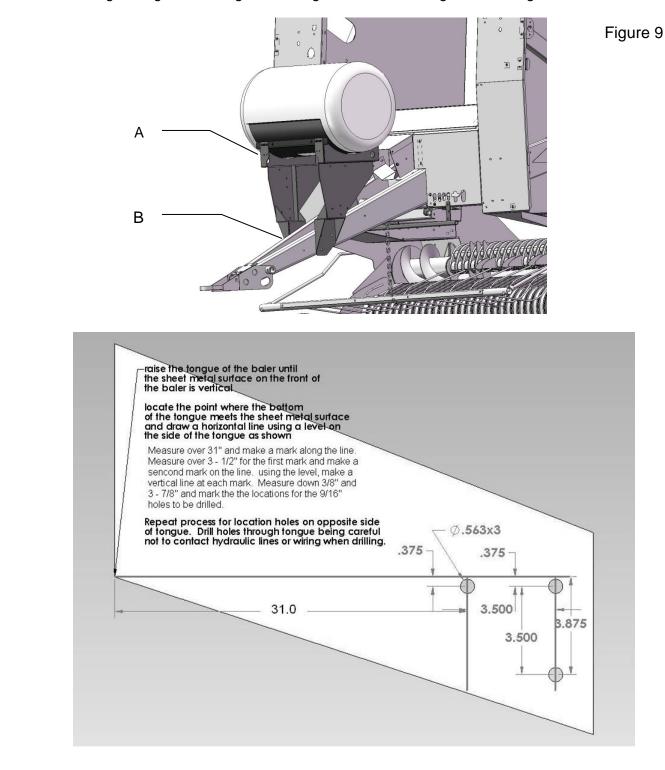
#### Install kit 4523B

Mount the saddle and legs on the baler as shown in the picture below. Push the tank as far forward as possible and mark the four 1/2" (13mm) holes that will need to be drilled. Locate the two support legs (001-4704JR & 001-4704JL) shown below (A). Align the support legs below the tank legs and attach through the baler platform using four 1/2" x 1-1/2" bolts, locks, flats and nuts. Mark and drill four 1/2" (13 mm) holes where the support legs (A) meet the baler hitch. Attach the legs to the baler frame using four 1/2" x 1-1/2" bolts, locks, flats and nuts. Tighten all hardware.



#### Model 4524B

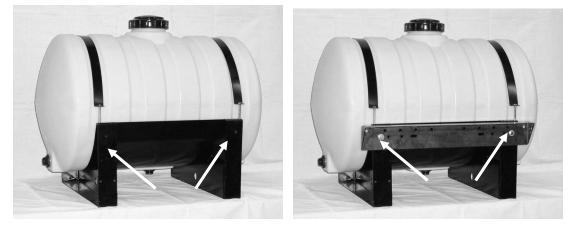
Locate legs part #001-4703K and part #001-4703L. Use the diagram below to locate the placement of the holes you will need to drill. You will need to drill three 1/2" (13mm) holes per side of tongue. After drilling the holes you will need to loosely attach the legs to the tongue with 1/2" x 2" bolts with locks, nuts, and flat washers. (Figure 9) Attach the (A) saddle (001-4703) and tank assembly on top of the legs 3/8" x 1" bolts and lock washers. (B) Do not tighten down bolts all the way. Once saddle is attached to legs tighten down bolts and nuts attaching the legs to the tongue. Now tighten bolts attaching saddle to legs.



#### Installation of Pump Manifold

#### Model 647

#### 55 Gallon Models







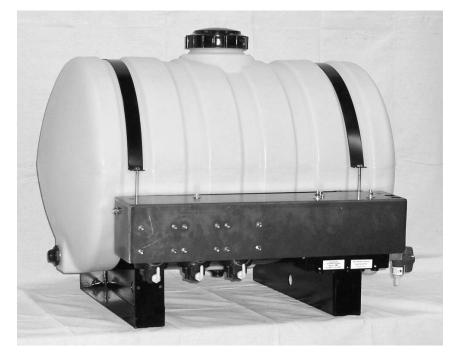


Figure 12

- 1. Locate mounting weld nuts on saddle as shown in Figure 10.
- Connect the pump plate mounting bracket (001-4646C) to the saddle as shown in Figure 11 using two 3/8" x 3/4" bolts, locks, and flat washers.
- 3. Attach the pump plate holder (001-4646D) to pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts. Figure 12.
- 4. Install the Pump Controller (006-5672) into the pump plate holder. Secure with two flats, locks, nuts.

## 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.

#### Model 647

#### **25 Gallon Models**

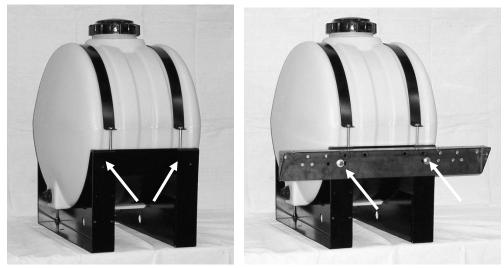


Figure 13







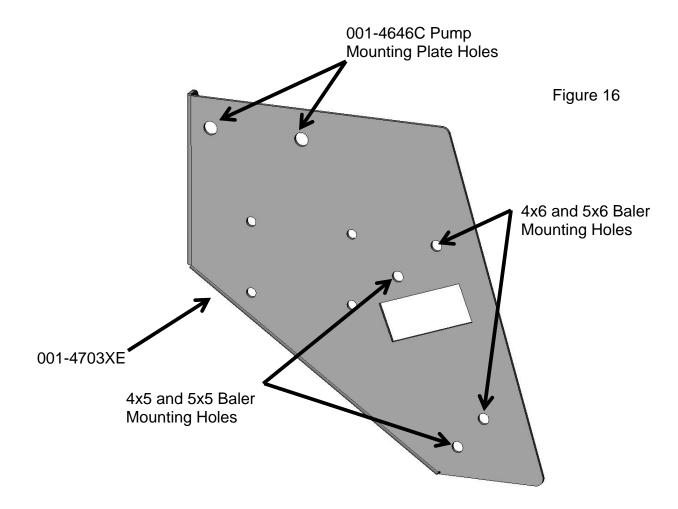
- 1. Locate mounting weld nuts on saddle as shown in Figure 13.
- 2. Connect the pump plate mounting bracket (001-4646C) to the saddle as shown in Figure 14, using two 3/8" x 3/4" bolts, nuts, locks, and flat washers.
- 3. Attach the pump plate holder (001-4646D) to pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts. Figure 15.

4. Install the Pump Controller (006-5672) into the pump plate holder. Secure with two flats, locks, nuts.

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.

#### Model 647C

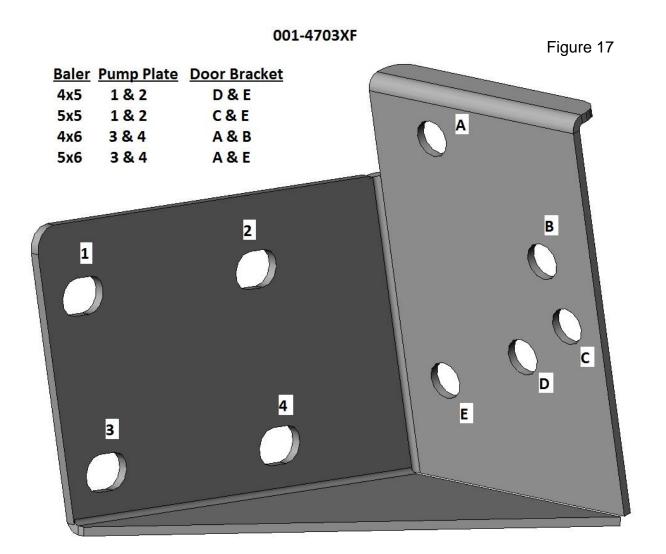
#### **Mounting Front Pump Plate Support**



- a. Open right side door of baler.
- b. Locate mounting holes for your size baler in bracket (001-4703XE). Mount bracket to pre-stamped square holes on diagonal support structure of baler. Note pictures on following pages will help in locating the pre-stamped holes on your baler. Secure with two M8 x 25mm carriage bolts and flanged nuts.
- c. Disconnect pump mounting bracket (001-4646C) from pump plate by removing four 3/8" x 3/8" flange bolts. Attach right top corner of pump mounting bracket to bracket (001-4703XE) with two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts. Note: top of both brackets should be flush.

#### Mounting Rear Pump Plate Support

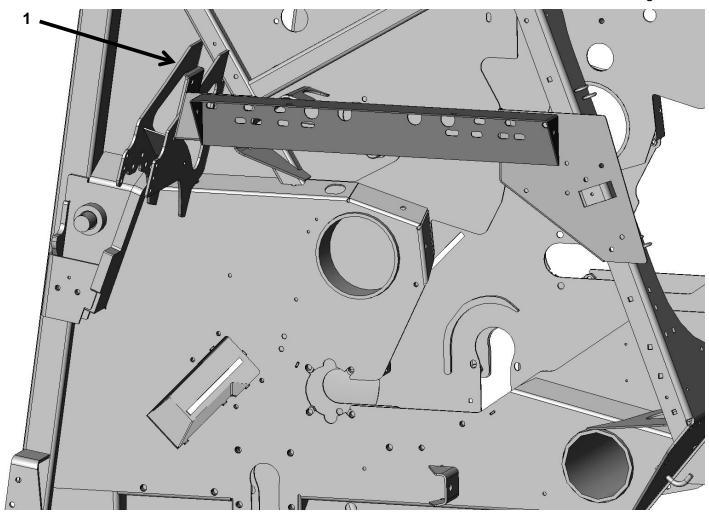
Mounting bracket (001-4703XF) will be used to mount the pump mounting bracket to the door support bracket. However each size baler uses a different set of holes in the rear mounting bracket (001-4703XR). Follow the guidance provided below as well as the additional instructions on the next few pages for mounting on your size baler.



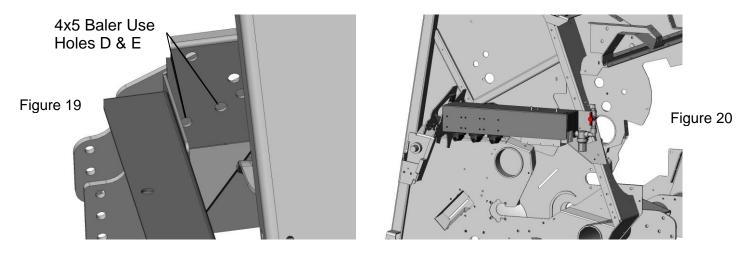
#### Mounting Rear Pump Plate Support for 4 X 5 Baler

- 1. Locate the baler door support bracket. This will be to the left of the Mounting Plate (001-4646C).
- Use two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts to secure Pump Plate Bracket (001-4703XF) to back side of Pump Mounting Bracket (001-4646C). Use holes 1 and 2 as designated in Figure 2 on the Pump Plate Bracket (001-4703XF). Slide the Pump Plate Bracket (001-4703XF) so it touches the door support bracket.
- 3. Place a level on top of the Mounting Plate (001-4646C) to make sure it is level. Using the Pump Plate Bracket (001-4703XF) as a guide mark holes (**D** and **E**) on the door support bracket. Remove brackets (001-4703XF and 001-4646C) for drilling. Center punch holes and drill with a 7/16" drill bit.
- 4. Once holes are drilled secure (001-4703XF) to door support bracket with two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts.
- 5. Attach pump mounting bracket back onto brackets (001-4703XF and 001-4703XE) with 3/8" hardware.
- 6. Attach pump plate with pumps onto Mounting Plate (001-4646C) bracket with 3/8" x 3/4" flange bolts removed earlier.

7. Install pump controller (006-5672) in pump plate using 5/16" flat washers, lock washers, nuts. 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.



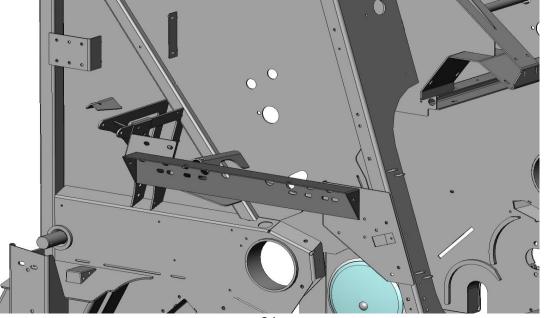
#### 4x5 Baler (continued)



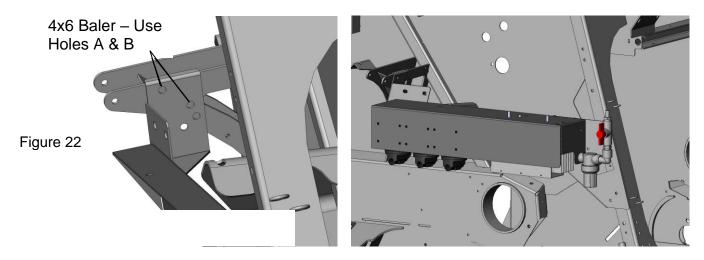
#### Mounting Rear Pump Plate Support for the 4 x 6 Baler

- 1. Locate the baler door support bracket. This will be to the left of the Mounting Plate (001-4646C).
- Use two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts to secure Pump Plate Bracket (001-4703XF) to back side of Pump Mounting Bracket (001-4646C). Use holes 3 and 4 as designated in Figure 2 on the Pump Plate Bracket (001-4703XF). Slide the Pump Plate Bracket (001-4703XF) so it touches the door support bracket.
- 3. Place a level on top of the Mounting Plate (001-4646C) to make sure it is level. Using the Pump Plate Bracket (001-4703XF) as a guide mark holes (**A and B**) on the door support bracket. Remove brackets (001-4703XF and 001-4646C) for drilling. Center punch holes and drill with a 7/16" drill bit.
- 4. Once holes are drilled secure (001-4703XF) to door support bracket with two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts.
- 5. Attach pump mounting bracket back onto brackets (001-4703XF and 001-4703XE) with 3/8" hardware.
- 6. Attach pump plate with pumps onto Mounting Plate (001-4646C) bracket with 3/8" x 3/4" flange bolts removed earlier.
- 7. Install Pump Controller (006-5672) in pump plate using 15/16" flat washers, lock washers, nuts.

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.



#### 4x6 Baler (continued)

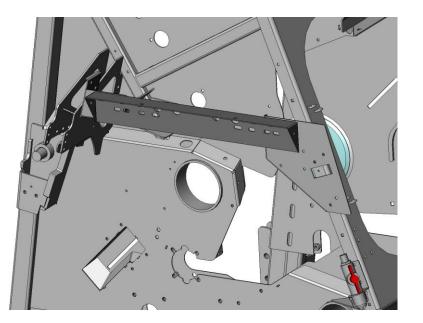


#### Mounting Rear Pump Plate Support for the 5 x 5 Baler

Figure 23

- 1. Locate the baler door support bracket. This will be to the left of the Mounting Plate (001-4646C).
- Use two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts to secure Pump Plate Bracket (001-4703XF) to back side of Pump Mounting Bracket (001-4646C). Use holes 1 and 2 as designated in Figure 2 on the Pump Plate Bracket (001-4703XF). Slide the Pump Plate Bracket (001-4703XF) so it touches the door support bracket.
- 3. Place a level on top of the Mounting Plate (001-4646C) to make sure it is level. Using the Pump Plate Bracket (001-4703XF) as a guide mark holes (**C and E)** on the door support bracket. Remove brackets (001-4703XF and 001-4646C) for drilling. Center punch holes and drill with a 7/16" drill bit.
- 4. Once holes are drilled secure (001-4703XF) to door support bracket with two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts.
- 5. Attach pump mounting bracket back onto brackets (001-4703XF and 001-4703XE) with 3/8" hardware.
- 6. Attach pump plate with pumps onto Mounting Plate (001-4646C) bracket with 3/8" x 3/4" flange bolts removed earlier.
- 7. Install Pump Controller (006-5672) in pump plate using 5/16" flat washers, lock washers, nuts.

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.



#### 5x5 Baler (continued)

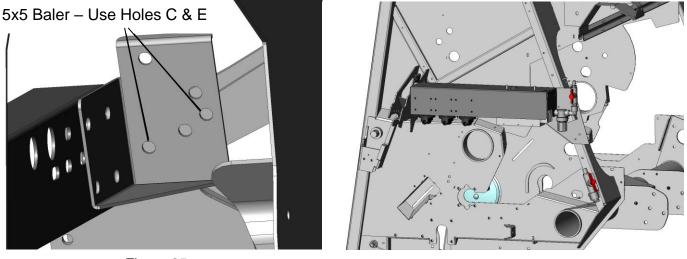


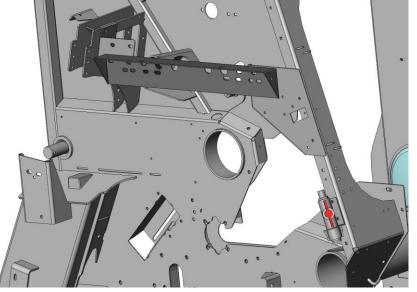
Figure 25



#### Mounting Rear Pump Plate Support for the 5 x 6 Baler

- 1. Locate the baler door support bracket. This will be to the left of the Mounting Plate (001-4646C).
- Use two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts to secure Pump Plate Bracket (001-4703XF) to back side of Pump Mounting Bracket (001-4646C). Use holes **3 and 4** as designated in Figure 2 on the Pump Plate Bracket (001-4703XF). Slide the Pump Plate Bracket (001-4703XF) so it touches the door support bracket.
- 3. Place a level on top of the Mounting Plate (001-4646C) to make sure it is level. Using the Pump Plate Bracket (001-4703XF) as a guide mark holes (**A and E)** on the door support bracket. Remove brackets (001-4703XF and 001-4646C) for drilling. Center punch holes and drill with a 7/16" drill bit.
- 4. Once holes are drilled secure (001-4703XF) to door support bracket with two 3/8" x 3/4" hex bolts, flat washers, lock washers, and nuts.
- 5. Attach pump mounting bracket back onto brackets (001-4703XF and 001-4703XE) with 3/8" hardware.
- 6. Attach pump plate with pumps onto Mounting Plate (001-4646C) bracket with 3/8" x 3/4" flange bolts removed earlier.

7. Install Pump Controller (006-5672) into pump plate using 5/16" flat washers, lock washers, nuts. 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.



#### 5x6 Baler (continued)

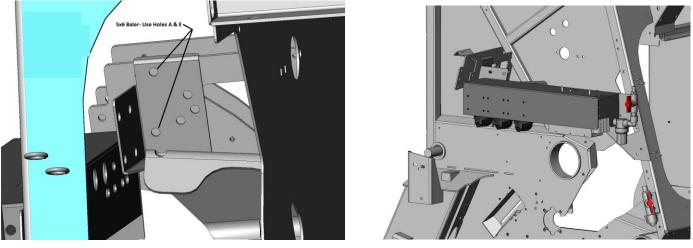


Figure 28



Model 649

#### Install kits 4503B, 4504B, 4517B & 4547B

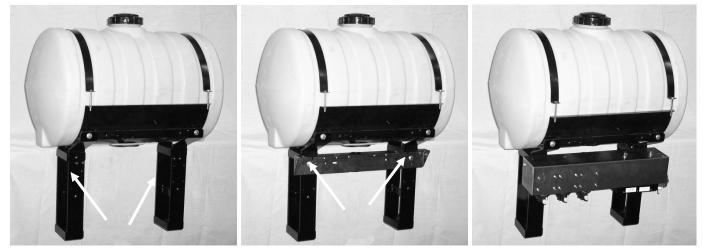


Figure 30

Figure 31

Figure 32

- 1. Locate the two mounting holes as shown in Figure 30.
- 2. Connect the pump plate mounting bracket (001-4646C) to the saddle as shown in Figure 31 using two 3/8" x 1/4" bolts, nuts, locks, and flat washers.
- 3. Attach the pump plate holder (001-4646D) to pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts. Figure 32.
- 4. Install the Pump Controller (006-5672) into the pump plate holder. Secure with two flats, locks, nuts.

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.

#### Model 649

#### Install kits 4505B, 4508B & 4524B

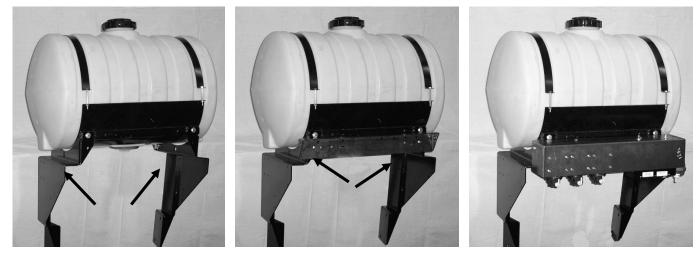


Figure 33

Figure 34

Figure 35

- 1. Locate the two mounting holes as shown in Figure 33.
- 2. Connect the pump plate mounting bracket (001-4646C to the saddle as shown in Figure 34 using two 3/8" x 1-1/4" bolts, nuts, locks, and flat washers.
- Attach the pump plate holder (001-4646D) to pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts. Figure 35.
- 4. Install the Pump Controller (006-5672) into the pump plate holder. Secure with two flats, locks, nuts.

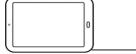
The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps.

#### Installation of 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)

#### **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.

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

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

#### \*Made for Apple iPad badge

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

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



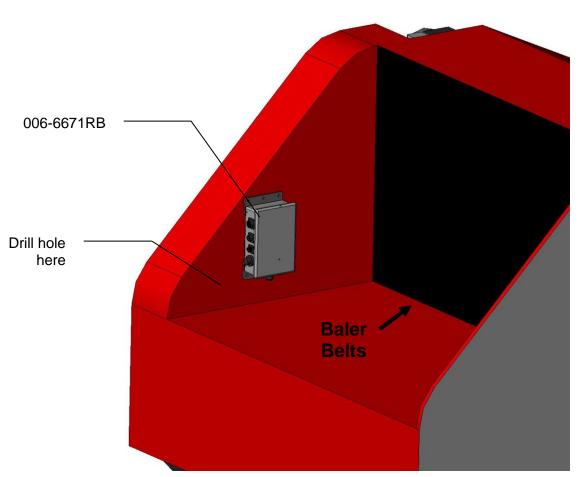




#### Installation of Dual Channel Processor (DCP)

#### Model 647

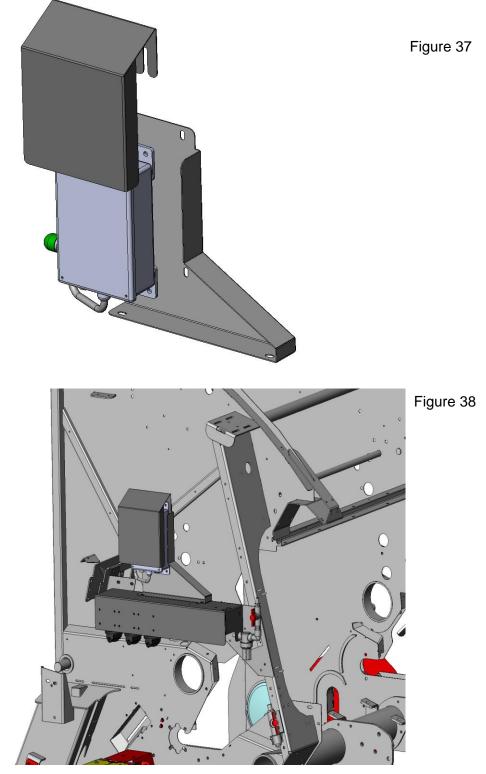
Mount the DCP (006-6671RB) to the right side sheet metal as shown below. Mark and drill four 3/8" (10mm) holes to mount the DCP. Check before drilling to ensure nothing will be damaged on the opposite side of the DCP. On the bottom right of the DCP a 1-1/2" (38mm) hole will need to be drilled and insert the supplied grommet. Insert the supplied grommet into the 1-1/2" (38mm) hole. The 1-1/2" (38mm) hole will allow all the wires and harnesses to be attached to the DCP. Cover with DCP Shield 001-5650X.



#### Model 647C

Use the supplied suction cup mount to position the monitor in the cab. Make sure the glass is clean before installing the suction cup mount. If a non-cabbed tractor is used, use the supplied #10 screws for installation on the fender. If unit is mounted on fender it will need to be removed at night and stored in a clean, dry area. Use the Ram mount swivel-positioning nut to tighten the entire assembly. Adjust it so that you can view the entire screen and be able to use the touch screen without interfering with other tractor functions.

Connect communication wire (006-5650T) to the bottom of the terminal.



#### Model 649

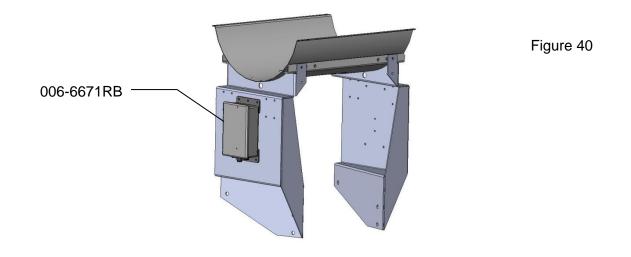
#### Install kits 4503B, 4504B, 4517B & 4547B

The DCP (006-6671RB) will mount on the right saddle leg. Install the two DCP mounts (001-4703BPM) to the leg using two 5/16" x 1" bolts, locks, and nuts. Install the DCP to the mounts using four 5/16" x 1" bolts, locks, flats and nuts. Install the DCP with power plug facing down. Cover with DCP Shield 001-5650X.



#### Install kits 4505B, 4508B & 4524B

The DCP (006-6671RB) will mount on the right saddle leg. Install the DCP on the four pre-drilled holes on the leg. Attach the DCP using four 5/16" x 1" bolts, locks, flats, and nuts. Install the DCP with the power plug facing down. Cover with DCP Shield 001-5650X.

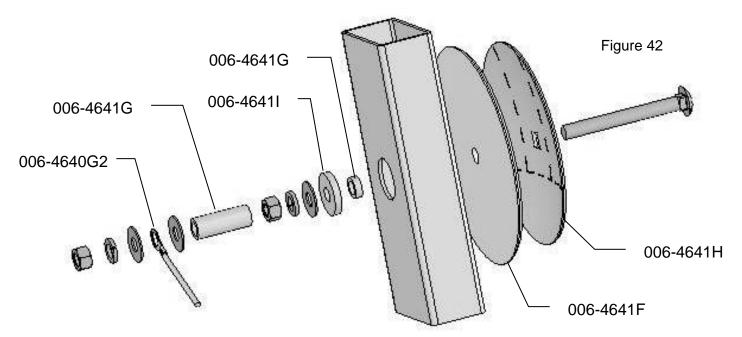


#### Installation of moisture sensing pads

#### Model 647 for four foot wide balers

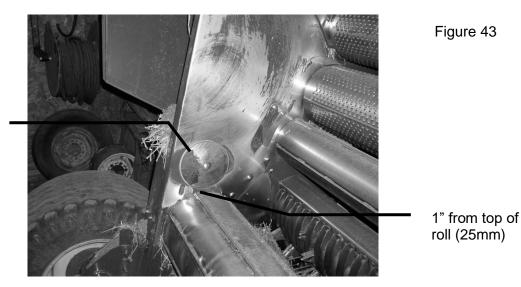


- A. If your baler is equipped with bale shaping pads, remove disc and use existing hole that will need to be drilled out to 3/4" (19mm) to install new moisture sensing discs.
- B. If your baler is not equipped with bale shaping pads you will need to drill a hole in the chamber directly behind and above the starting roll. (Figure 28)
- C. The mounting hole will be 3/4" (19mm) in diameter. Use a plastic pad (006-4641F) and place it into the baler to use as a template. The bottom edge of the pad will be placed 1" (25mm) up from starting roll and 2" (51mm) from the back of the bale chamber.



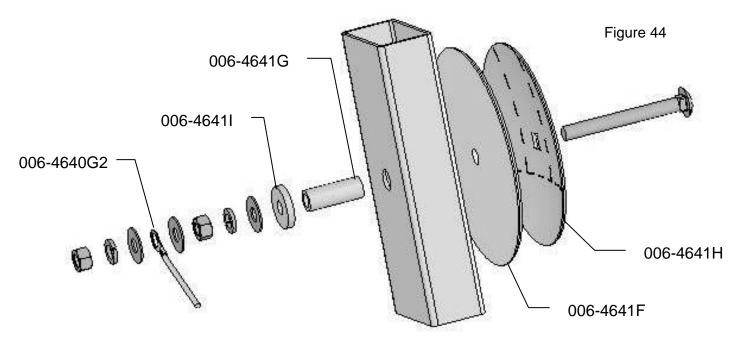
- 4. Locate the 006-4641G. The piece will need to be cut down to size. Use the already machined line in the bushing to cut off the small piece shown above.
- 5. Depending on the baler the bolt may need to be trimmed for proper fit.
- 6. Tighten all of the hardware to 50 ft/lbs (68N/m)
- 7. Make sure that the plastic pad is protecting all metal surfaces of the disc from touching baler.
- 8. Run the moisture wire harness (006-4640G2) from pump plate area to each disc securing with cable ties.
- 9. Apply silicone over nuts and washers.

#### Model 647 for five foot wide balers



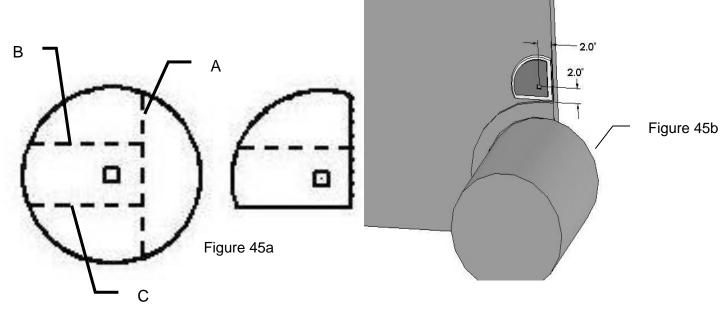
2" from back of chamber (51mm)

- 1. If your baler is equipped with bale shaping pads, remove disc and use existing hole that will need to be drilled out to 3/4" (19mm) to install new moisture sensing discs. If the discs are welded, the welds will need to ground off for disc removal.
- 2. If your baler is not equipped with bale shaping pads you will need to drill a hole in the chamber directly behind and above the starting roll. (Figure 43)
- 3. The mounting hole will be 3/4" (19mm) in diameter. Use a plastic pad (006-4641F) and place it into the baler to use as a template. The bottom edge of the pad will be placed 1" (25mm) up from starting roll and 2" (51mm) from the back of the bale chamber.

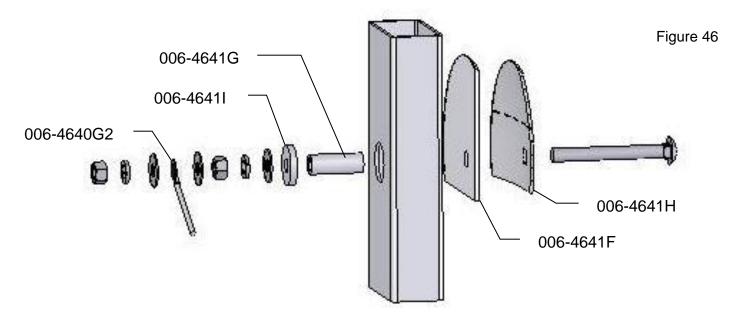


- 4. Depending on the baler the bolt may need to be trimmed for proper fit.
- 5. Tighten all of the hardware to 50 ft/lbs 68 N/m).
- 6. Make sure that the plastic pad is protecting all metal surfaces of the disc from touching baler.
- 7. Run the moisture wire harness (006-4640G2) from pump plate area to each disc securing with cable ties.
- 8. Apply silicone over nuts and washers.

#### Install kit 4503B for John Deere 582



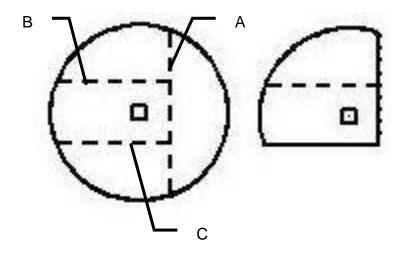
- 1. The moisture discs (006-4641H) will both need to be cut on line A. (Figure 45a) One disc will need to be cut on line B and one disc on line C.
- 2. The plastic pad (006-4641F) will also need to be cut 6mm longer than the back of the disc.
- 3. Bevel all sides of the cut discs to allow the smooth travel of crop over them.
- The mounting hole will be 3/4" (19mm) in diameter. The disc will need to be placed on the baler to line up the location of 1" (25mm) up from bottom and 2" (51mm) from the back of chamber to the center of the bolt. (Figure 45b)

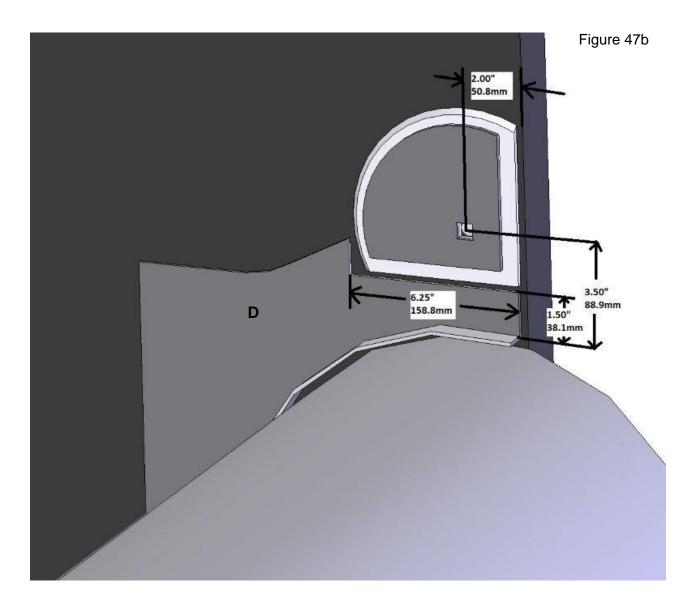


- 4. Make sure that plastic pad is protecting all metal surfaces of disc from touching baler.
- 5. Run the moisture wire harness (006-4640G2) from the DCP to each disc securing with cable ties.
- 6. On some balers the bolt may need to be trimmed for proper fit.
- 7. Tighten all hardware to 50 ft/lbs (68 N/m)
- 8. Apply silicone over nuts and washers.

#### Install kit 4503B for John Deere 854

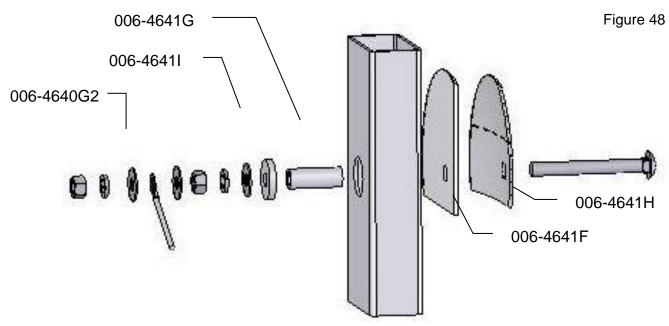
Figure 47a



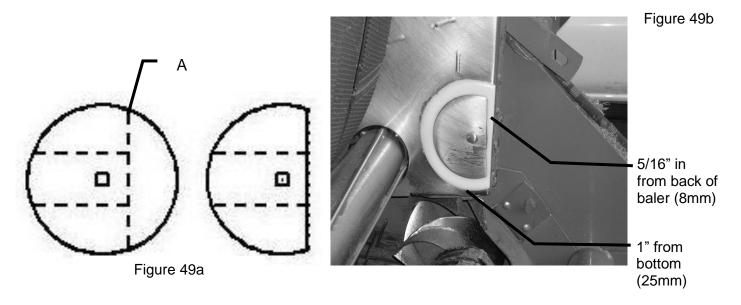


#### Install kit 4503B for John Deere 854 (continued)

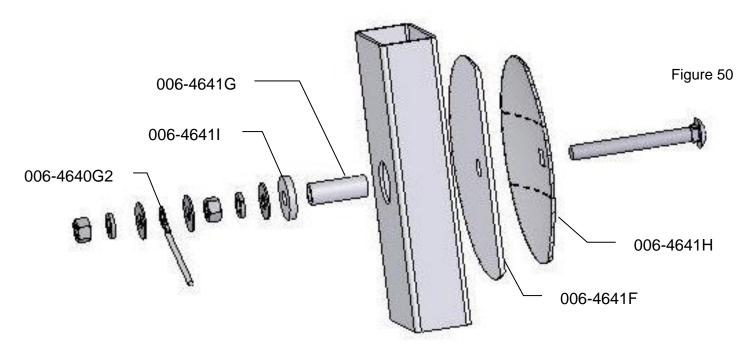
- 1. The moisture discs (006-4641H) will both need to be cut on line A. (Figure 47a) One disc will need to be cut on line B and one disc on line C.
- 2. The plastic pad (006-4641F) will also need to be cut 1/4" (7mm) longer than the back of the disc.
- 3. Bevel all sides of the cut discs to allow the smooth travel of crop over them.
- 4. Remove the shield directly above the starter roll shown as figure D on both sides of the baler. Cut the 6-1/4" (16cm) notch out using the supplied measurements. Reinstall both sides.
- 5. The mounting hole will be 3/4" (19mm) in diameter. The disc will need to be placed on the baler to line up the location of 3-1/2" (89mm) up from bottom and 2" (51mm) from the back of the chamber to the center of the bolt.



- 6. Make sure that plastic pad is protecting all metal surfaces of disc from touching baler.
- 7. Run the moisture wire harness (006-4640G2) from the DCP to each disc securing with cable ties.
- 8. On some balers the bolt may need to be trimmed for proper fit.
- 9. Tighten all hardware to 50ft/lb (68N/m)
- 10. Apply silicone over nuts and washers

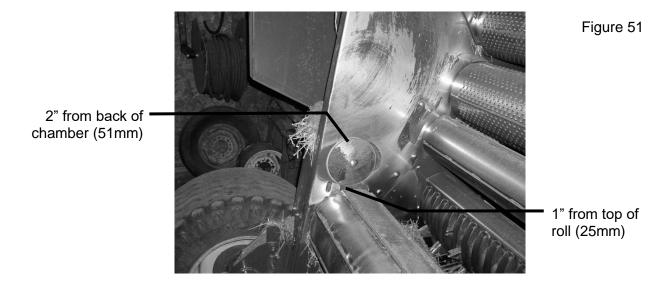


- 1. Both moisture discs (006-4641H) will need to be cut along the serrated line (A) (Figure 49a). Only cut on the line shown on Figure 64, do not cut the other line.
- 2. The plastic pad (006-4641F) will also need to be cut 1/4" (7mm) longer than the back of the disc.
- 3. Bevel all sides of the cut discs to allow the smooth travel of crop over them.
- 4. Using the cut disc as a pattern, mark and drill a 3/4" (19mm) hole in the side of the bale chamber. The disc will need to be placed on baler 1" (25mm) up from bottom and 1/4" (7mm) in from the back of chamber.

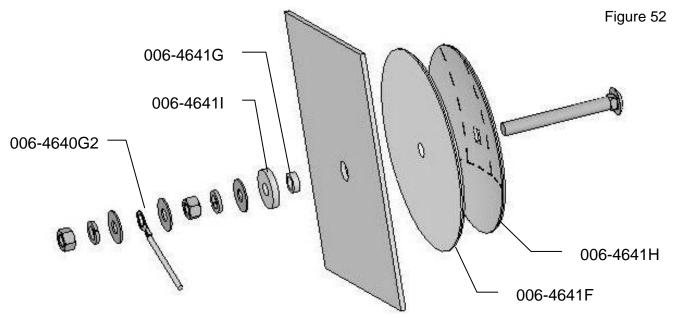


- 5. Make sure that plastic pad is protecting all metal surfaces of disc from touching baler.
- 6. Run the moisture wire harness (006-4640G2) from the DCP to each disc securing with cable ties.
- 7. On some balers the bolt may need to be trimmed for proper fit.
- 8. Tighten all hardware to 50 ft/lbs (68N/m)
- 9. Apply silicone over nuts and washers.

#### Install kit 4505B



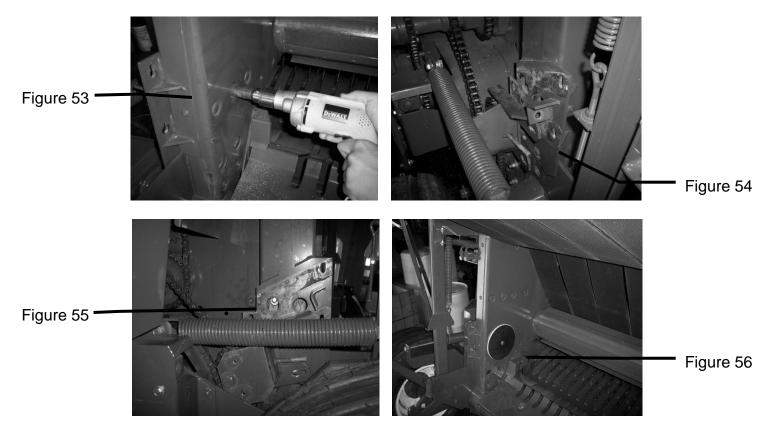
- 1. If your baler is equipped with bale shaping pads, remove disc and use existing hole (may need to be drilled larger, 3/4" (19mm) to install new moisture sensing discs.
- 2. If your baler is not equipped with bale shaping pads you will need to drill a hole in the chamber directly behind and above the starting roll. (Figure 51)
- 3. The mounting hole will be 3/4" (19mm) in diameter. Use a plastic pad (006-4641F) and place it into the baler to use as a template. The bottom edge of the pad will be placed 1" (25mm) up from starting roll and 2" (51mm) from the back of the bale chamber.



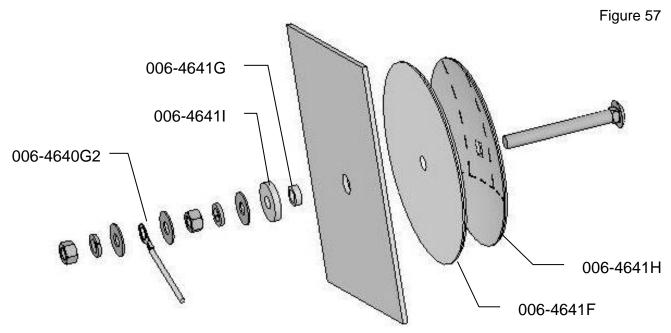
- 4. Locate the 006-4641G. The piece will need to be cut down to size. Use the already machined line in the bushing to cut off the small piece shown above.
- 5. Depending on the baler the bolt may need to be trimmed for proper fit.
- 6. Tighten all of the hardware to 50 ft/lbs (68 N/m)
- 7. Make sure that the plastic pad is protecting all metal surfaces of the disc from touching baler.
- 8. Run the moisture wire harness (006-4640G2) from the DCP to each disc securing with cable ties.
- 9. Apply silicone over nuts and washers.

### Install kit 4508B and 4523B & 4526B

- 1. If your baler is equipped with bale shaping pads, remove disc and use existing hole (may need to be drilled larger) to install new moisture sensing discs.
- 2. If your baler is not equipped with bale shaping pads you will need to drill a hole in the chamber directly behind and above the starting roll. (Figure 53)
- 3. Remove the main chain assembly and install the pad on the right side of baler. (Figure 54)
- 4. The hole size is 1" (25mm) diameter. Before drilling the hole make sure hole is accessible from opposite side of chamber to tighten down mounting hardware and to install moisture harness. (Fig. 55)
- 5. Make sure that the plastic pad is protecting all metal surfaces of disc from touching baler. (Figure 56)



\*Continued on next page



- 5. Locate the 006-4641G. The piece will need to be cut down to size. Use the already machined line in the bushing to cut off the small piece shown above.
- 6. Depending on the baler the bolt may need to be trimmed for proper fit.
- 7. Tighten all of the hardware to 50 ft/lbs (68 N/m)
- 8. Make sure that the plastic pad is protecting all metal surfaces of the disc from touching baler. Run the moisture wire harness (006-4640G2) from the DCP to each disc securing with cable ties.
- 9. Apply silicone over nuts and washers.

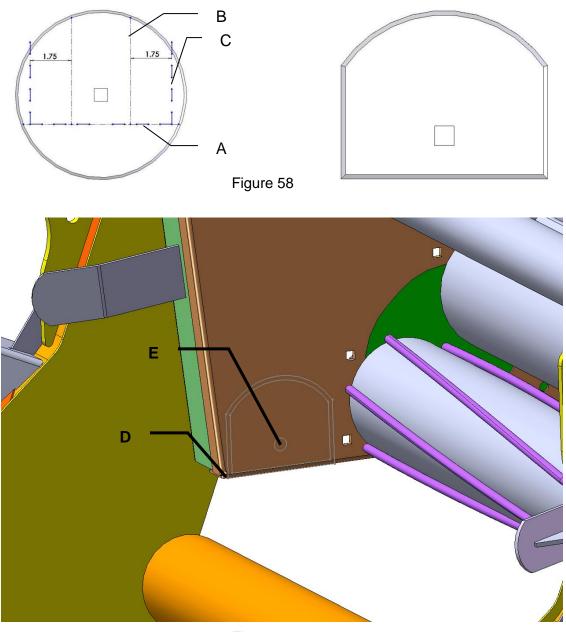
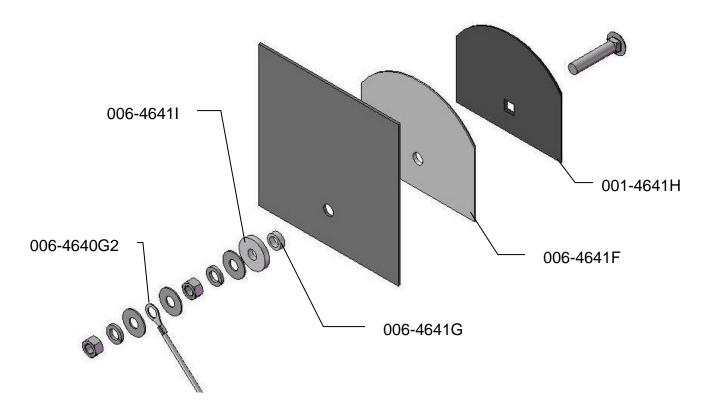


Figure 59

- 1. Both moisture discs (006-4641H) will need to be cut along the serrated line (A) shown on Figure 58. Measure from the laser etched line (B) 1-3/4" (45mm) on both side. Mark and cut the disc. Completed disc in shown to the top right.
- 2. The plastic pad (006-4641F) will also need to be cut 6mm larger than the steel disc.
- 3. Bevel all sides of the cut discs to allow the smooth travel of crop over them.
- 4. Mark a line 1-1/2" (38mm) up and 3-1/2" (89mm) over from point D. Drill a 3/4" hole at the point (E). Repeat for the opposite side.

#### \*\*\*CONTINUED ON NEXT PAGE\*\*\*

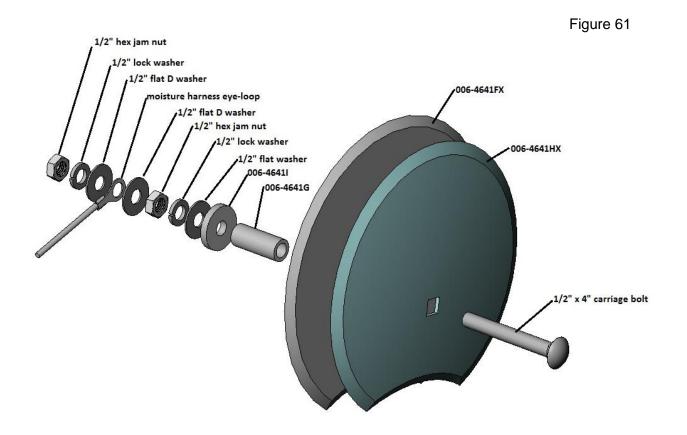


- 5. Locate the 006-4641G. The piece will need to be cut down to size. Use the already machined line in the bushing to cut off the small piece shown above.
- 6. Depending on the baler the bolt may need to be trimmed for proper fit.
- 7. Tighten all of the hardware to 50 ft/lbs (68 N/m)
- 8. Make sure that the plastic pad is protecting all metal surfaces of the disc from touching baler.
- 9. Run the moisture wire harness (006-4640G2) from the DCP to each disc securing with cable ties.
- 10. Apply silicone over nuts and washers.

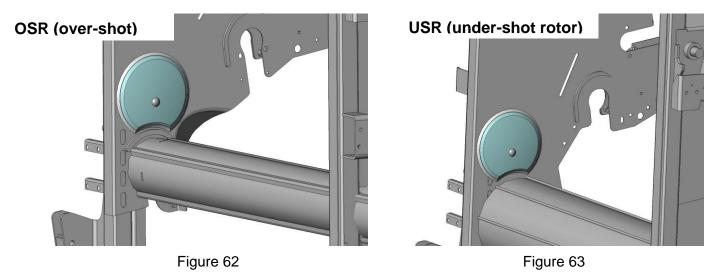
## 647C Moisture Sensor Pads and Disks

- 1. Open rear tail gate of baler and lock in the up position. Refer to baler manual to lock door open.
- 2. Remove bale shaping discs on each side of chamber by grinding welds. Once removed grind any remaining welds so sides of bale chamber are smooth.
- 3. Place plastic isolator (006-4641FX) in the same spot that the shaping disc had. There should be a hole in the baler that matches up with the hole in the plastic isolator. If not, use the isolator as a template and mark the hole. Center punch the hole and drill it to 3/4" (19mm) (Note: before drilling make sure you are not drilling into sensitive equipment on the outside of the baler). Drill through the complete square tube. About 2" (51mm). Repeat for other side of the baler.
- 4. Insert plastic bushing (006-4641G) from the outside of baler. Make sure it is flush with the outside of the baler frame. Go to the inside of the baler and mark amount that protrudes into the chamber. Remove and cut off excess material. Repeat for other side.
- 5. Using 4" carriage bolt slide the parts on in following order: metal disc (001-4641HX), plastic isolator (006-4641FX) and shortened plastic bushing (006-4641G).
- 6. Insert disc assembly into 3/8" (10mm) hole from inside of bale chamber. Secure to outside of baler by attaching to the protruding carriage bolt in the following order: small isolator (006-4641), 1/2" D shaped washer, 1/2" lock washer, 1/2" jam nut. Tighten down and repeat for the other side. Make sure no part of the bolt or hardware makes contact with the frame of baler-no metal to metal.
- 7. Route moisture harness (006-4640G3E) from processor down to the carriage bolt on each side. Make sure it does not come in contact with any moving parts. Secure with cable ties.
- Attach moisture cable to moisture carriage bolt by placing items in the following order: 1/2" D shaped washer, Ring terminal of moisture harness (006-4640G3E), second 1/2" D washer, 1/2" lock washer, 1/2" Jam Nut. Tighten down and repeat for other side. Make sure none of the hardware comes in contact with the frame of the baler.

\*If there are Rotor Transition Kit (CNH part# 48093991) transition plates installed, they will need to be removed in order to install the moisture discs.



### 647C Moisture Sensor Pads and Disks (continued)



#### Installation of bale rate timer sensor 647, 647C & 649

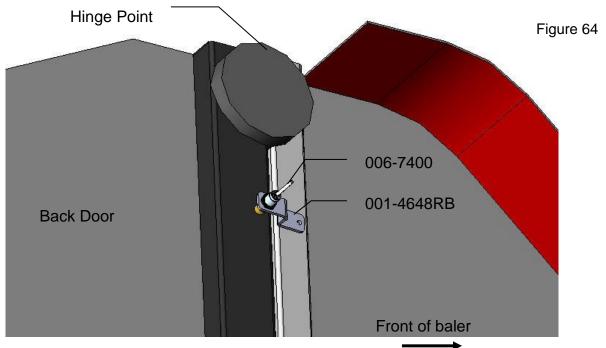
The bale rate timer sensor is used to determine when the baler door is open. With this information the system is able to change the tons/hour automatically (see Operating Instructions, Automatic Mode) and also record information per bale (see Job Records).

Locate the sensor (006-7400) and the sensor bracket (001-4648RB). On the right side of the baler find a location 1"– 6" (22mm-15cm) down from the hinge to mount the bracket. Check for clearance with hydraulic cylinders before mounting the bracket. The bracket should be mounted to the front side of the hinge point, with the sensor aligned over the back door.

Mark and drill two 1/4" (7mm) holes and install the bracket using two 5/16" x1/4" self-tapping bolts.

Install the sensor into the bracket and leave 6mm of clearance between the end of the sensor and the door.

The harness will need to be routed towards the DCP. Secure with cable ties and take care to avoid pinch points. The harness extension (006-7400EXT) may need to be used.



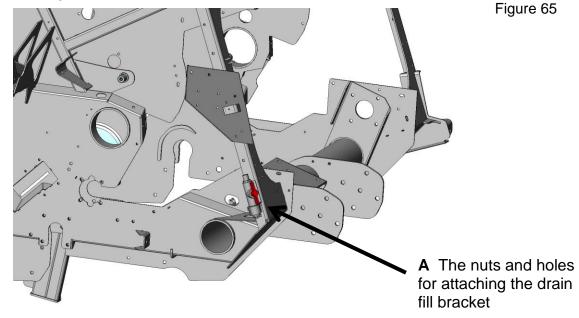
### Installation of Drain Fill Kit

#### Model 647C

Locate parts bag 1. Thread 3/4" elbow fitting (003-EL3434) into end of tank. Run 3/4" hose from the elbow down the frame to the bottom of the baler. Locate the two holes on the baler's angled support bracket that line up with the holes in the valve bracket and attach using two 5/16" x 1" self-tapping screws and secure with two 5/16" flange nuts. Connect valve assembly to other end of hose. Place hose clamps on both ends. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly.

Locate the two holes near the bottom of the angled support tube that the drain/fill bracket matches up with (A). Remove the existing nuts and install the drain/fill bracket. Reinstall the original nuts to secure the drain/fill bracket to the baler.

\*Secure hose to frame using cable locks.



#### Model 647 & 649

Thread 19mm elbow fitting (#003-EL3434) into end of tank. Run 3/4" (19mm) hose from the elbow down the frame to the bottom of the baler or to the saddle leg. Drill 1/4" (7mm) holes to accept the valve holder bracket and use 5/16" x 1" self-tapping screws and two 5/16" flange nuts. Connect valve assembly to other end of hose. Place hose clamps on both ends.

\*Secure hose to frame using cable locks.

Figure 66

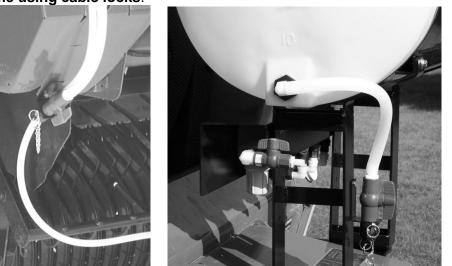
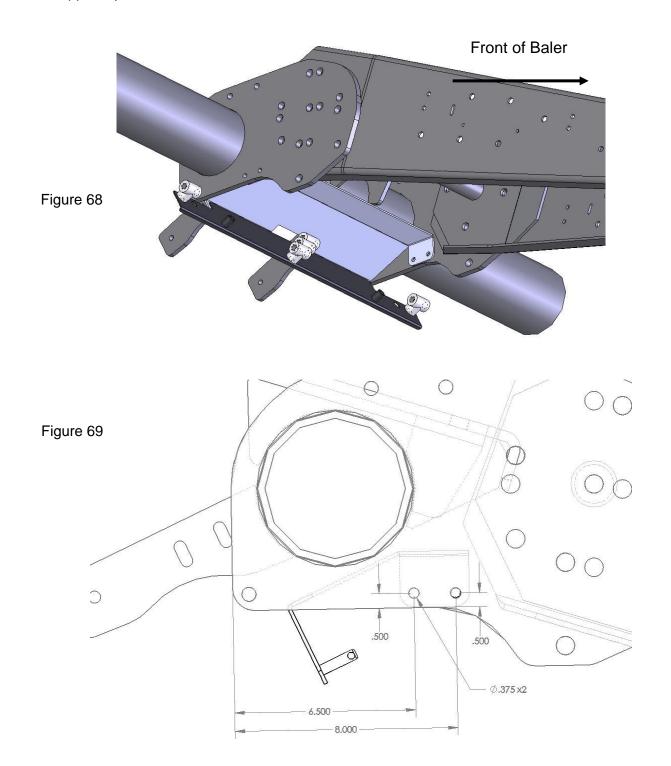


Figure 67

### Installation of spray shield assembly

#### Install kit 447-SO

Locate parts bag 10. Locate the spray shield (001-4810B) and the spray shield holder (001-4810BRH). The assembly will mount as shown in Figure 68. The location shown in figure 1 is directly above the baler pickup. Four 3/8" (10mm) holes will need to be drilled to mount the shield holder to the baler (Figure 69). Mount the spray shield holder using four 5/16" x 1-1/2" bolts, locks, flats, and nuts. Attach the shield to the holder using the two supplied lynch pins.



#### Install kit 4503B

The top cross bar above the full-shielded wind guard provides a mounting point for the short nozzle pipes. (Figure 70) The lip on the full-shielded wind guard will need to be notched behind Figure 70 for the 45 degree elbow to mount above. Space the nozzles by the chart below:

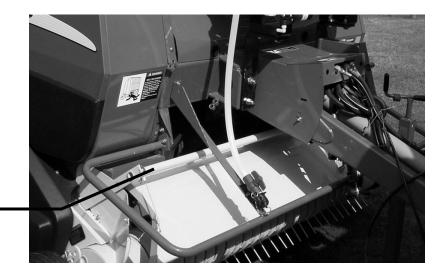


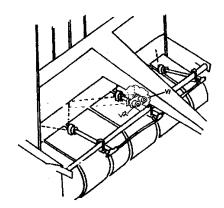
Figure 70

| PICK-UP HEAD<br>WIDTH | LEFT SIDE<br>(Use plugged fitting) | CENTER<br>(Use 2-way fitting) | RIGHT SIDE<br>(Use 2-way fitting) |
|-----------------------|------------------------------------|-------------------------------|-----------------------------------|
| 48" (121cm)           | 12" from left (30cm)               | Center                        | 12" from right (121cm)            |
| 60" (152cm)           | 14" from left (35cm)               | Center                        | 14" from right (152cm)            |
| 72" (180cm)           | 15" from left (38cm)               | Center                        | 15" from right (38cm)             |

#### Install kit 4504B & 4505B

The cross bar on the wind guard above the pick-up head provides a mounting point for the nozzle pipes. Space the nozzles by the chart below:

Aim the nozzle pipes up so that the tips spray in a generally horizontal direction. The tips should be pointed toward the starter rolls of the baler. The tips should be located so they will be somewhere between 36cm and 46cm from the normal path of hay.



#### Install kit 4508B

Locate the spray shield assembly (030-4508B). Fit shield with tips facing down onto the baler as shown below with the shield hangers (001-4703JB). Mark both sides of the shield (only mark one hole per side) and drill a 3/8" (10mm) hole to allow the shield to be bolted to the baler using 3/8" x 1-1/2" bolts, locks, nuts, and flat washers. Remove the spray shield from the mounting brackets to install. Attach hoses to shield before installing on bracket. (See installation of plumbing)

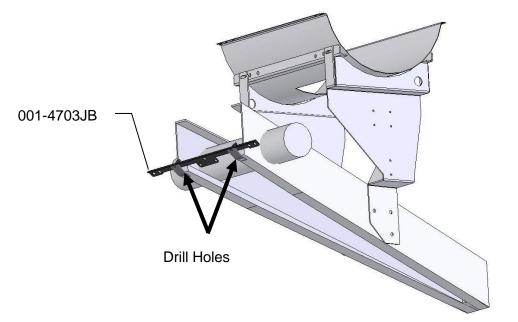
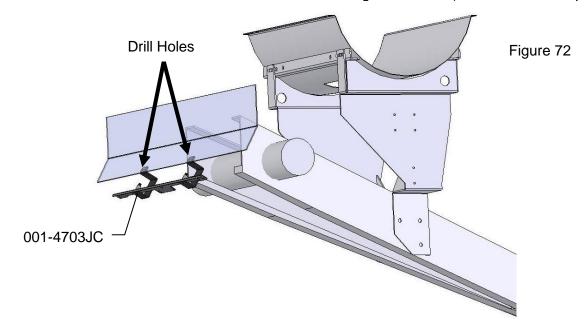


Figure 71

#### Install kit 4508B

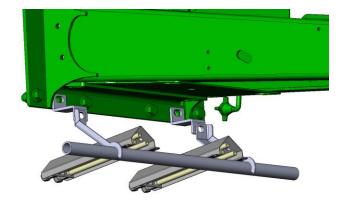
Locate the spray shield assembly (030-4508B). Fit shield with tips facing down onto the baler as shown below with the shield hangers (001-4703JC). The shield hangers will be positioned on the sheet metal between the balers tongue and belts. The shield hangers should be positioned so that the bottom of the sheet metal is aligned with the bottom of the bend below the mounting holes and on the tongue side of the sheet metal. Mark both sides of the shield hangers (two holes per side) and drill four 3/8" (10mm) holes to allow the shield to be bolted to the baler using 3/8" x 1-1/2" bolts, locks, nuts, and flat washers. Remove the spray shield from the mounting bracket to install. Attach hoses to shield before installing on bracket. (See installation of plumbing)



#### Install kit 4517B

#### **Twine and Net Balers**

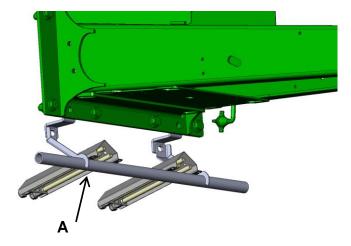
Figure 73



Locate the four flange head bolts where the baler hitch bolts to the bottom side of the baler frame. Remove the two outside bolts. Attach the spacers (001-4703NS) to the **hitch side** of the baler frame. Use original hardware to secure. Attach the nozzle holder (001-4703R) to the spacers with the supplied M16 x 40mm flange bolts and nuts. Attach the nozzle mount (001-4714J) to the nozzle holder (001-4703R) with 5/16" U bolts, locks, and nuts. The Nozzle mount should be about 6"apart for 4' (1.2M) wide balers and 9" apart for 5' (1.5M) wide balers. Do not fully tighten. Lift the roller baffle and position the end of the nozzle holder bracket so the tips are just above the roller baffle (if equipped) when it is lifted to its highest point. Tighten all hardware and attach the hoses.

#### **Net Only Baler**

Figure 74



Locate the four flange head bolts where the baler hitch bolts to the bottom side of the baler frame. Remove the two bolts. Attach the spacers (001-4703NS) to the **chamber side** of the baler frame. Use original hardware to secure. Attach the nozzle holder (001-4703R) to the spacers with the supplied M16 x 40mm flange bolts and nuts. Attach the nozzle mount (001-4714J) to the nozzle holder (001-4703R) with 3/8" U bolts, locks and nuts. The nozzle mount should be about 9" (23cm) apart with bracket **A** as close to the V-shaped stop as possible. Do not fully tighten. Lift the roller baffle (if equipped) and position the end of the nozzle holder bracket so the tips are just above the baffle when it is lifted to its highest point. Tighten all hardware and attach the hoses.

#### Install Kit 4523B & 4526B

Locate the spray shield (001-4704G) and spray shield hangers (001-4704H). Mount the spray shield above the pickup reel and directly in front of the rotor on the baler. Use the two existing holes to mount the shield using four 3/8" x 1-1/2" bolts, locks, flats, and nuts. Tighten all hardware.

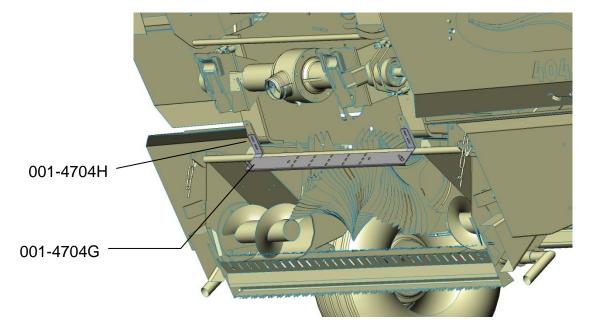
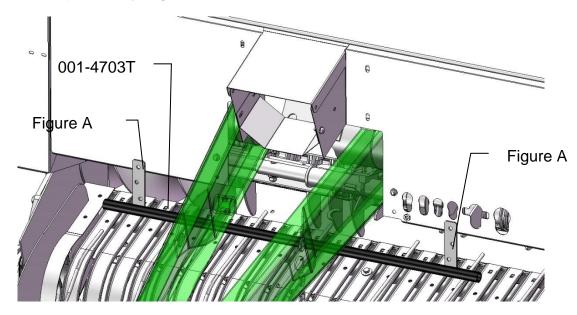


Figure 75

#### Install Kit 4524B

Locate the spray nozzle holder (001-4703T). Situate the holder, centered on the baler sheet metal and mark one hole per side. (Figure A) Drill two 5/16" (8mm) holes and attach the holder using two 3/8 x 1" bolts, locks, flats, and nuts. Install one nozzle tube in the center. The two remaining nozzle tubes, will mount one inch in from each end. Do not fully tighten. Position the nozzle tubes so that the tips will be 14 - 18" (35cm-45cm) away from the normal path of hay. Tighten the nozzle tubes to the nozzle holder.



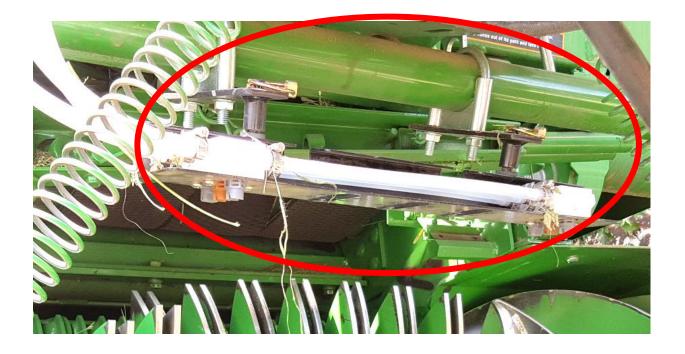
#### Install Kit 4547B

Locate the spray shield (001-4435NSX) and the shield holder (001-4435NCX2). Position the assembly over the center of the pickup and secure the shield holder to the cross bar support as shown on right using the two 2" Ubolts (001-4714UBX) include with the kit.

Attach the spray shield to the shield holder as shown below by using the two lynch pins provided (008-4576).

Position the spray shield so the preservative will be spraying in front of the rotating precutter. Test with water to adjust as needed.





### 647C Installation of Spray Nozzles

- **a.** Locate nozzle block hanger assemblies with tips pre-installed.
- b. The assembly with the check valves will be mounted to the left hitch support plate when standing next to the PTO just in front and under the large round cross support tube. Use 1/2" x 1-1/4" Bolt, flat washer, lock washer, and nut to secure to baler. Repeat for the other assembly on the other side.
- c. Loosen Philip screw on nozzle block and turn them slightly in toward each other.
- **d.** Measure distance between hose barb fittings and cut one each of the three colors of hose to that length. Attach them to the nozzle assemblies with the same color and secure them with hose clamps.

Figure 76

#### Installation of plumbing 647, 647C & 649

#### A. Intake

Use the 003-EL3412 on the bottom of the tank to route 1/2" line (002-9001) to the 003-A1212 fitting on the ball valve already attached to the pump plate. Attach hose clamps (003-9003) on both of the fittings.

#### B. Discharge

The three -1/4" hose assembly will be used to attach the pumps to the spray nozzles. The pump order is, from closest to the filter bowl 1, 2, and 3. Pump 1 will attach to the three main nozzles. Pump 2 will use the green hose and Pump 3 will use the blue hose to attach to the auxiliary nozzles.

#### C. High and Low Output Tips

Your baler comes with two sets of tips: a low set and a high set.

-The low set will cover outputs of 32 to 440 lbs/hr (14-220L/hr) approximately 8-27 tons/hour. Install the following tips for low output:

Clear hose to silver tips on all three connected nozzles.

Green hose to green tip.

Blue hose to red tip.

-The high set will cover outputs of 84 to 632 lbs/hr (38-287L/hr) approximately 21-40 tons/hour. Install the following tips for high output:

Clear hose to white outside tips and orange middle tip. Green hose to blue tip. Blue hose to gray tip.

#### \*\*Refer to Tip Output under APPLICATION RATE of the control unit to calibrate system.

#### Installation of latch extension (model 647 only)







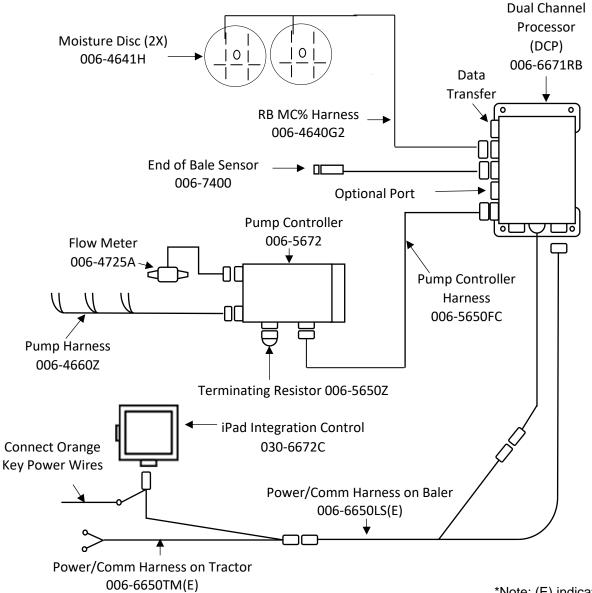
Remove the nut and spring on the existing latch. Replace with the extended latch. Retighten nut and attach the spring. The latch may need to be bent to fit through the doors opening.

## 647 & 649 Wiring Diagram

- 1. Locate the tractor power/communication harness (006-6650TM(E).
- 2. On the back of tractor run the power leads of power / communication harness (006-6650TM(E)) to battery.
- 3. Connect the red power wire with the 50 amp fuse to the positive side of the battery (12 volt).



- a. The power harness must be connected to the battery! The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty. CONTACT HARVEST TEC IF MODIFICATION IS REQUIRED!
- b. This unit will not function on positive ground tractors.
- c. If the unit loses power while operating it will not record accumulated product used.
- 4. Connect the baler power and communication harness (006-6650LS(E)) to the power port on the DCP and to the display port on the DCP.
- 5. Connect the Communication Harness (006-6650TM(E)) to the iPad Integration Control (030-6672C).
- 6. Connect Pump Controller Harness (006-5650FC) to DCP and Pump Controller (006-5672).
- 7. Connect Flow Meter (006-4725A) and pump harness (006-4660Z) to the Pump Controller.
- 8. Install one terminating resistor to the pump controller (006-5650Z).
- 9. Attach moisture cable (006-4640G2) to the DCP



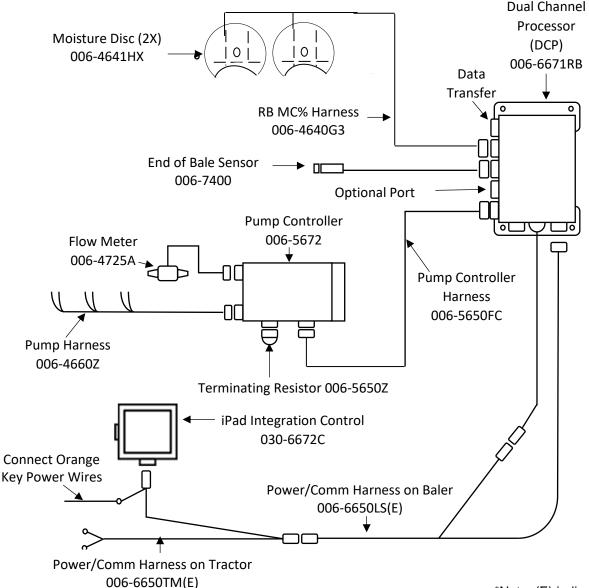
\*Note: (E) indication is used for International Dealers

## 647C Wiring Diagram

- 1. Locate the tractor power/communication harness (006-6650TM(E)).
- 2. On the back of tractor run power leads of power / communication harness (006-6650TM(E)) to battery.
- 3. Connect the red power wire with the 50 amp fuse to the positive side of the battery (12 volt).
  - a. The power harness must be connected to the battery! The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems



- warranty. CONTACT HARVEST TEC IF MODIFICATION IS REQUIRED! b. This unit will not function on positive ground tractors.
- c. If the unit loses power while operating it will not record accumulated product used.
- 4. Connect the baler power and communication harness (006-6650LS(E)) to the power port on the DCP and to the display port on the DCP.
- 5. Connect the Communication Harness (006-6650TM(E)) to the iPad Integration Control (030-6672C).
- 6. Connect Pump Controller Harness (006-5650FC) to DCP and Pump Controller (006-5672).
- 7. Connect Flow Meter (006-4725A) and pump harness (006-4660Z) to the Pump Controller.
- 8. Install one terminating resistor to the pump controller (006-5650Z).
- 9. Attach moisture cable (006-4640G3) to the DCP



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

## **Pin Outs**

| Power/Comm Harness 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 at Hitch

| Red    | +12V Power to TSD  |
|--------|--|
| Red    | +12V Power to DCP  |
| Orange | Keyed Power  |
| Gray   | Shield   |
| Green  | HT Can Low   |
| Yellow | HT Can Hi  |
| Orange | Can1 Hi  |
| Black  | Ground from TSD  |
| Black  | Ground from DCP  |
| Blue   | Can1 Low   |
|        | Red<br>Orange<br>Gray<br>Green<br>Yellow<br>Orange<br>Black<br>Black |

#### iPad Integration Control / BLE Plug on Harness Pin 1 Red +12V Power from DCP

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

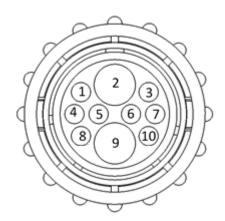
#### **ISOBUS Plug Baler Side**

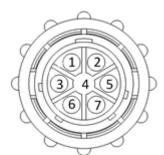
| 10000 | Se ridg Balor | erae               |
|-------|---------------|--------------------|
| Pin 1 | -             | N/A                |
| Pin 2 |               | N/A                |
| Pin 3 |               | 120 OHM with Pin 5 |
| Pin 4 |               | N/A                |
| Pin 5 |               | 120 OHM with Pin 3 |
| Pin 6 | Orange        | Can1 Hi            |
| Pin 7 | Blue          | Can1 Low           |
|       |               |                    |

### ISOBUS Plug Tractor Side

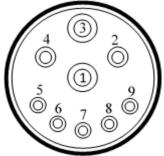
| Pin 1 | -      | N/A                      |
|-------|--------|--------------------------|
| Pin 2 |        | N/A                      |
| Pin 3 |        | +12V Keyed Tractor Power |
| Pin 4 |        | N/A                      |
| Pin 5 |        | N/A                      |
| Pin 6 |        | N/A                      |
| Pin 7 |        | N/A                      |
| Pin 8 | Orange | Can1 Hi                  |
| Pin 9 | Blue   | Can1 Low                 |











## Pin Outs (continued)

### Main Power Connector on DCP

| Pin 1 | Red    | +12V Power from tractor |
|-------|--------|-------------------------|
| Pin 2 | Black  | Ground from tractor     |
| Pin 3 | Orange | Keyed power             |

#### Star Wheel and Bale Rate Sensor Connector on DCP

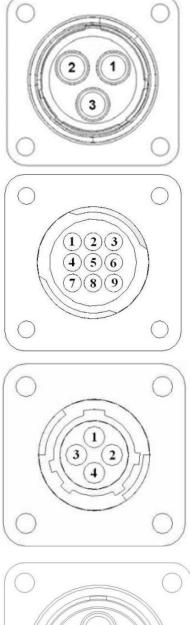
| 0.00.1 |        |                     |
|--------|--------|---------------------|
| Pin 1  | Blue   | +12V Power          |
| Pin 2  | Orange | Ground              |
| Pin 3  | Black  | Signal for sensor 1 |
| Pin 4  | White  | Signal for sensor 2 |
| Pin 5  | N/A    | -                   |
| Pin 6  | N/A    |                     |
| Pin 7  | N/A    |                     |
| Pin 8  | Violet | Star wheel input 1  |
| Pin 9  | Brown  | Star wheel input 2  |
|        |        |                     |

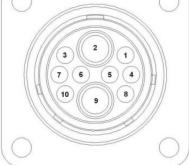
#### End of Bale Sensor on DCP

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

#### Pump 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    |                 |





## Pin Outs (continued)

### **Pump Connection Colors**

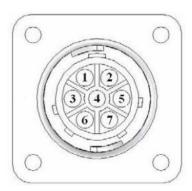
| Pin 1 | Black with Orange Stripe | Pump 1 Ground   |
|-------|--------------------------|-----------------|
| Pin 2 | Black with Green Stripe  | Pump 2 Ground   |
| Pin 3 | Black with Yellow Stripe | Pump3 Ground    |
| Pin 4 | N/A                      |                 |
| Pin 5 | Orange with Black Stripe | Pump 1 Positive |
| Pin 6 | Green with Black Stripe  | Pump 2 Positive |
| Pin 7 | Yellow with Black Stripe | Pump 3 Positive |

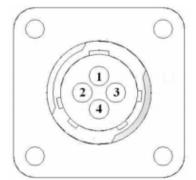
## Flow Meter Connection on Pump Controller

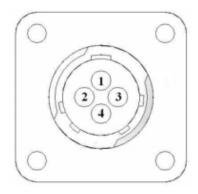
- +5-12V Power Pin 1 White
- Pin 2 Green Ground
- Signal Shield Pin 3 Brown
- Pin 4 Black

### Connector for Crop Eyes on DCP

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

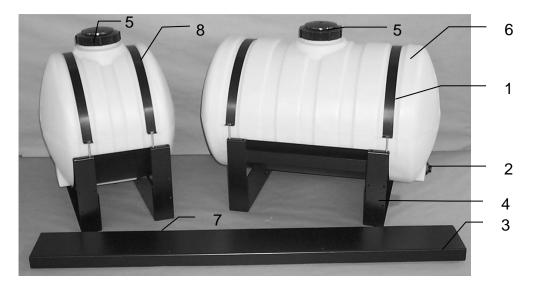






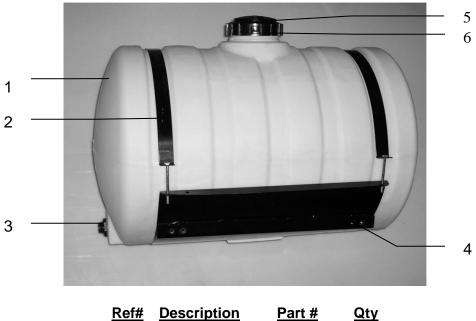
# Parts Breakdown

# Harvest Tec Model 647 Base Kit



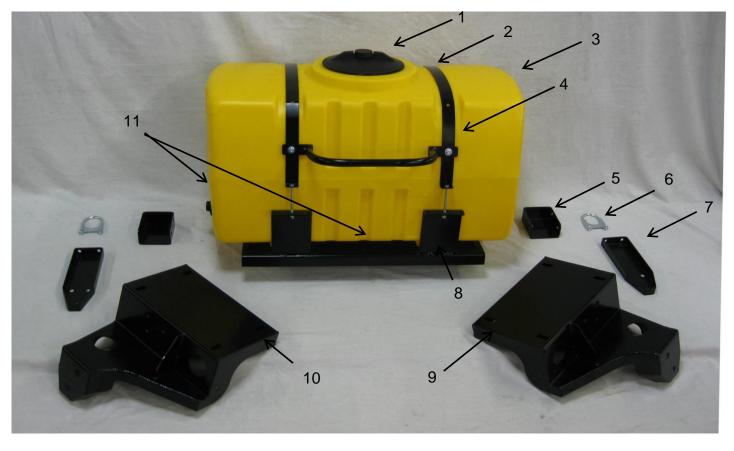
| <u>Ref #</u> | <b>Description</b>    | Part #    | <u>Qty</u> | <u>Ref #</u> | <b>Description</b> | Part #     | <u>Qty</u> |
|--------------|-----------------------|-----------|------------|--------------|--------------------|------------|------------|
| 1            | 55 Gallon tank        | 005-9203  | 1          | 5            | Tank lid           | 005-9022C  | 1          |
| 2            | Tank fitting          | 005-9100  | 1          |              | Tank lid gasket    | 005-9022CG | 1          |
| 3            | Cross support bracket | 001-4445B | 1          | 6            | Tank strap         | 001-4402   | 1          |
| 4            | 55 Gallon saddle      | 001-4445A | 1          | 7            | 25 Gallon saddle   | 001-4442   | 1          |
|              |                       |           |            | 8            | 25 Gallon tank     | 005-9022   | 1          |

# Harvest Tec Model 649 Base Kit



|   | Description  | <u>Fait #</u> |   |
|---|--------------|---------------|---|
| 1 | Tank         | 005-9203      | 1 |
| 2 | Straps       | 001-4402      | 2 |
| 3 | Tank Fitting | 005-9100      | 2 |
| 4 | Saddle       | 001-4703      | 1 |
| 5 | Tank Cap     | 005-9022C     | 1 |
| 6 | Tank Gasket  | 005-9022CG    | 1 |
|   |              |               |   |

## Parts Breakdown for the Tank and Saddle Harvest Tec Model 647C Base Kit



| Ref # | <b>Description</b> | Part #      | <u>Qty</u> | <u>Ref #</u> | <b>Description</b> |
|-------|--------------------|-------------|------------|--------------|--------------------|
| 1     | 55 Gallon tank lid | 005-9022H   | 1          | 7            | Anchor Bracket     |
| 2     | Strap              | 001-4402    | 2          | 8            | Saddle             |
| 3     | Tank               | 005-9203SQ  | 1          | 9            | Left Leg           |
| 4     | Handle             | 001-6707HRS | 1          | 10           | Right Leg          |
| 5     | Anchor Bracket Ext | 001-4703XAX | 2          | 11           | Tank fitting       |
| 6     | U Clamp            | 001-4703XAB | 2          |              | -                  |
|       |                    |             |            |              | Tank Kit Assembly  |

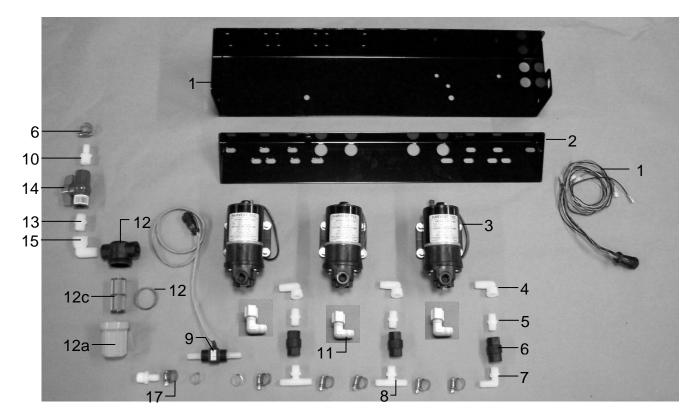
| # | <b>Description</b> | Part #               | Qty |
|---|--------------------|----------------------|-----|
|   | Anchor Bracket     | 001-4703XA           | 2   |
|   | Saddle             | 001-4703X            | 1   |
|   | Left Leg           | 001-4703XL           | 1   |
| ) | Right Leg          | 001-4703XR           | 1   |
|   | Tank fitting       | 005-9100             | 2   |
|   | -                  |                      |     |
|   | Tank Kit Assembly  | 030-0447C-TK         |     |
|   |                    | (Includes Ref# 1-11) |     |

# 647, 647C & 649 Parts Breakdown for Drain Fill Kit

|       | 6                |
|-------|------------------|
|       | C <sub>E</sub> 7 |
| 2     | C_               |
| 3     | E_               |
| 4     | Q 8              |
| 5 000 | Q                |

| Ref # | <b>Description</b> | Part #     | Qty |
|-------|--------------------|------------|-----|
| 1     | Straight Fitting   | 003-A3434  | 1   |
| 2     | Ball valve         | 002-2200   | 1   |
| 3     | Valve Holder       | 001-6702H  | 1   |
| 4     | Female Coupler     | 002-2204A  | 1   |
| 5     | Male Coupler       | 002-2205G  | 1   |
| 6     | Elbow              | 003-EL3434 | 1   |
| 7     | Jiffy Clip         | 008-9010   | 3   |
| 8     | Hose Clamps        | 003-9004   | 2   |
| NP    | 3/4" Hose          | 002-9002   | 8ft |

## Parts Breakdown for Pump Manifold



#### Ref# Description

## 1 Pump plate

- 2 Mounting Bracket
- 3 Pump
- 4 Street elbow fitting
- 5 Nipple fitting
- 6 Check valve
- 7 Elbow fitting
- 8 Tee fitting
- 9 Flow meter assembly
- 10 Straight fitting
- 11 Jaco fitting
- 12 Filter bowl assembly
- 12a Filter bowl only
- 12b Filter bowl gasket
- 12c Filter bowl screen
- 13 Nipple fitting
- 14 Ball valve
- 15 Street elbow fitting
- 16 Hose clamp
- 17 Hose clamp (Flow Meter)
- 18 Pump Cable
- NP Elbow
- NP Pump rebuild kit (1 per pump)

Complete Pump Assembly

030-4646

007-4581

Part#

001-4646D

001-4646C

007-4120H

003-M3838

002-4566F

006-4725A

003-A1212

002-4315F

002-4315D

002-4315A

003-M1212

002-2212

003-SE12

003-9003

003-9005

006-4660Z

003-EL1212

003-JEL1238

002-4315-100

003-EL3812

003-T3812HB

003-SE38

<u>Qty</u>

1

1

3

3

3

3

1

2 1

2

3

1

1 1

1

1

1

1 7

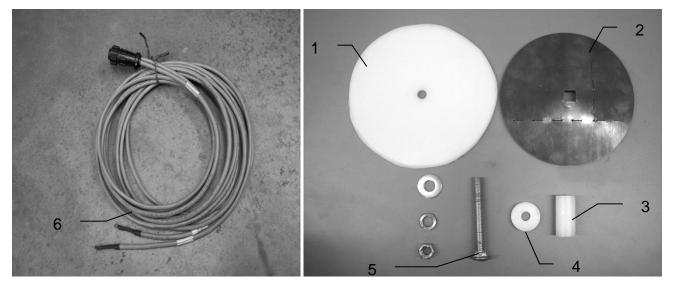
2

1

1

1

## 647 & 649 Moisture Pads and Hose Breakdown



### Ref# Description

- 1 Plastic Pad
- 2 Moisture Disc
- 3 Plastic Bushing
- 4 Plastic Isolator
- 5 4" x 1/2" Bolt
- 6 Moisture Cable
- 1-5 Moisture Pad Assembly 030-4643

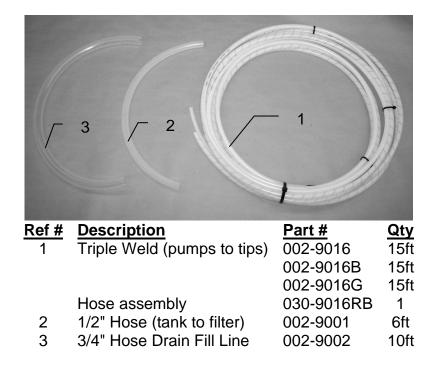
| 006-4641F  | 2 |
|------------|---|
| 006-4641H  | 2 |
| 006-4641G  | 2 |
| 006-4641I  | 2 |
| Hardware   | 2 |
| 006-4640G2 | 1 |
| 030-4643   | 2 |

Qtv

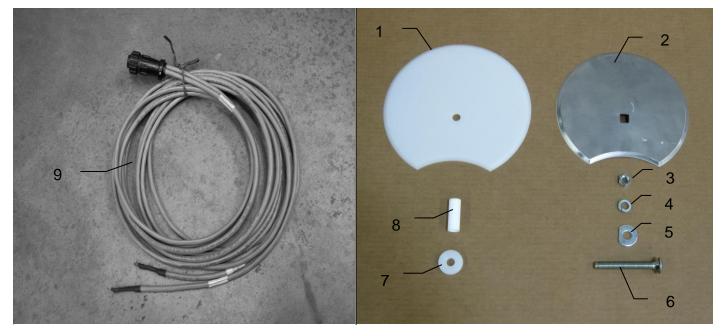
Part #

-

## 647, 647C & 649 Hose Parts Breakdown



## 647C Parts Breakdown for Moisture Sensor Discs



#### Ref Description

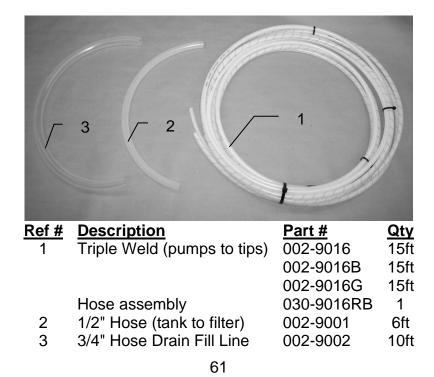
- 1 CNH RB Moisture Isolator
- 2 CNH RB Moisture Disk
- 3 1/2" JAM Nut
- 4 1/2" Lock
- 5 1/2" D Washer
- 6 1/2"x 4" Bolt
- 7 Sensor Bushing
- 8 Sensor Isolator
- 9 Moisture Cable

Moisture Disc Assembly

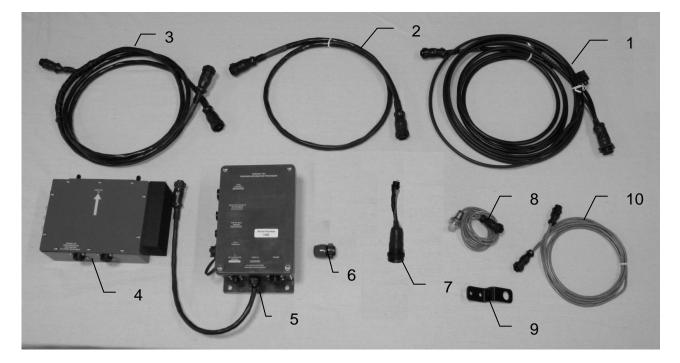
| Part #        | <u>Qty</u> |
|---------------|------------|
| 006-4641FX    | 2          |
| 006-4641HX    | 2          |
| Misc Hardware | 4          |
| Misc Hardware | 4          |
| Misc Hardware | 6          |
| Misc Hardware | 2          |
| 006-4641G     | 2          |
| 006-46411     | 2          |
| 006-4640GX    | 1          |

030-4643C (Includes Ref # 1-8)

# 647, 647C & 649 Hose Parts Breakdown



# Parts Breakdown for Control Boxes and Wiring Harnesses



| Ref | Description |
|-----|-------------|
| 4   |             |

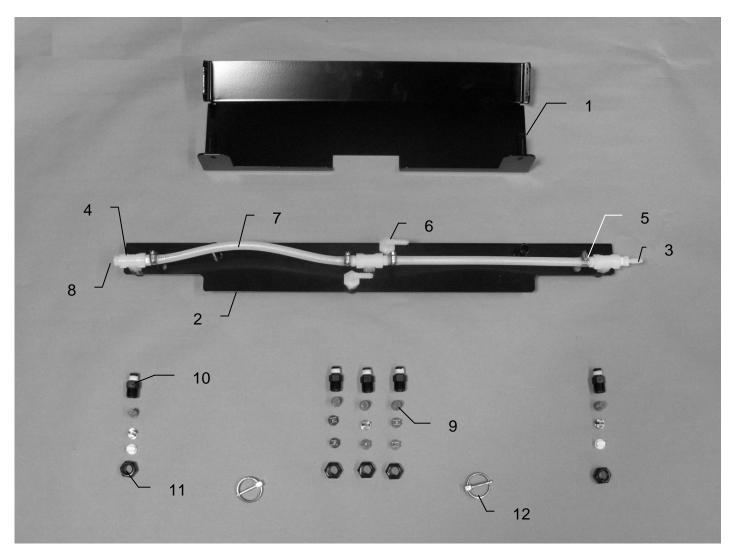
- Power & communication tractor 1
- 2 Pump controller harness
- 3 Power & communication baler
- 4 Pump controller
- Dual Channel Processor (DCP) 5
- 6 7 Terminating resistor
- Optional ISOBUS Tractor Plug (not included)
- 8 Bale rate timer
- 9 Bale rate timer bracket
- 10 Bale rate timer sensor extension
- 11 iPad Integration Control
- NP Key switch wire
- Dust plug kit NP
- NP USB Cord

| Part#         | Qty |
|---------------|-----|
| 006-6650TM(E) | 1   |
| 006-5650FC    | 1   |
| 006-6650LS(E) | 1   |
| 006-5672      | 1   |
| 006-6671RB    | 1   |
| 006-5660Z     | 1   |
| 006-6670A     | 1   |
| 006-7400      | 1   |
| 001-4648RB    | 1   |
| 006-7400EXT   | 1   |
| 030-6672C     | 1   |
| 006-5650K     | 1   |
| 006-5651PLUGS | 1   |
| 006-6672USBC  | 1   |



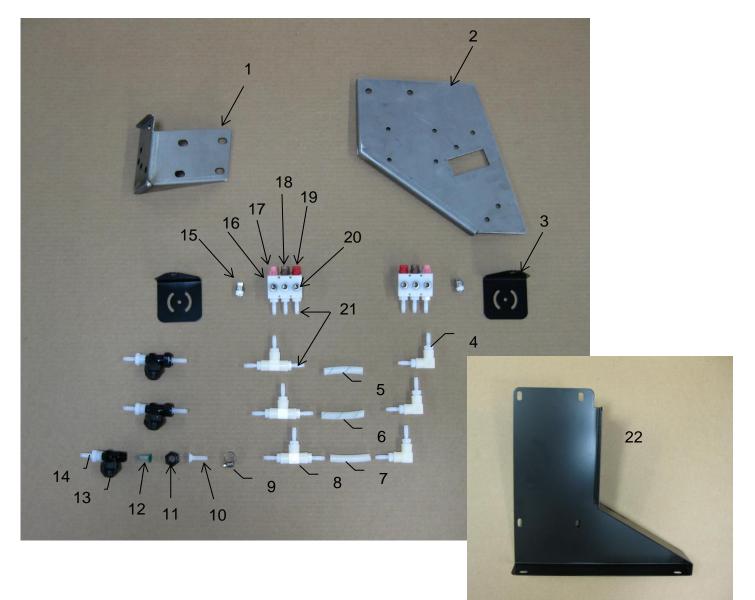
\*Note: (E) indication is used for International Dealers

# Harvest Tec Model 447-SO Installation Kit



| Ref | <b>Description</b> | Part #       | Qty | Ref | Description         | Part#          | Qty |
|-----|--------------------|--------------|-----|-----|---------------------|----------------|-----|
| 1   | Shield bracket     | 001-4810BRH  | 1   | NP  | Tip – Low (silver)  | 004-650033-SS  | 3   |
| 2   | Spray shield       | 001-4810B    | 1   | NP  | Tip – Low (green)   | 004-XR110015VS | 1   |
| 3   | Straight fitting   | 003-A1414    | 5   | NP  | Tip – Low (red)     | 004-XR11004VS  | 1   |
| 4   | Тее                | 003-TT14     | 3   | NP  | Tip – High (white)  | 004-650050-PT  | 2   |
| 5   | Hose clamp         | 003-9002     | 7   | NP  | Tip – High (orange) | 004-XR11001VS  | 1   |
| 6   | Elbow              | 003-EL1414F  | 2   | NP  | Tip – High (blue)   | 004-XR11003VS  | 1   |
| 7   | Hose               | 002-9016     | 3ft | NP  | Tip – High (grey)   | 004-XR11006VS  | 1   |
| 8   | Plug               | 003-F14      | 1   |     |                     |                |     |
| 9   | Tip strainer       | 004-4213-200 | 5   | NP  | Not Pictured        |                |     |
| 10  | Nozzle body        | 004-4722     | 5   |     |                     |                |     |
| 11  | Nozzle cap         | 004-4723     | 5   |     |                     |                |     |
| 12  | Lynch pin          | 008-4576     | 2   |     |                     |                |     |

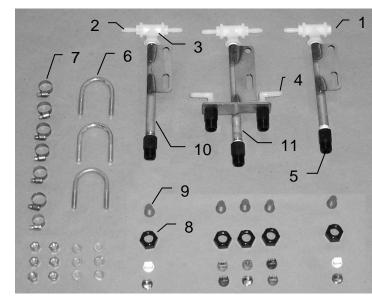
# Harvest Tec Model 647C Installation Kit

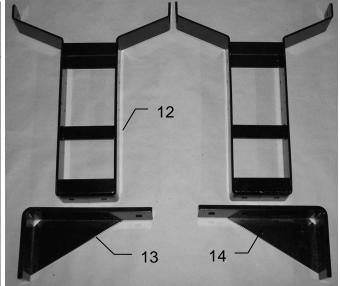


| <u>Ref</u> | <b>Description</b> | Part #       | <u>Qty</u> |
|------------|--------------------|--------------|------------|
| 1          | Pump Plate Bracket | 001-4703XF   | 1          |
| 2          | Pump/Valve Mount   | 001-4703XE   | 1          |
| 3          | Spray Block Holder | 001-4703XD   | 2          |
| 4          | Elbow              | 003-SE14F    | 3          |
| 5          | Hose-clear         | 002-9016     | 6 ft       |
| 6          | Hose-green striped | 002-9016G    | 6 ft       |
| 7          | Hose-blue striped  | 002-9016B    | 6 ft       |
| 8          | Тее                | 003-TT14SQ   | 3          |
| 9          | Hose Clamp         | 003-9002     | 27         |
| 10         | Fitting            | 003-A1414VB  | 3          |
| 11         | Nozzle cap         | 004-4723     | 3          |
| 12         | Tip Strainer       | 004-1203-100 | 3          |
| 13         | Check Valve        | 004-1207VB   | 3          |
| 14         | Fitting            | 003-A1414F   | 3          |

| <u>Ref</u> | <b>Description</b>            | Part#                                 | <u>Qty</u> |
|------------|-------------------------------|---------------------------------------|------------|
| 15         | Tip –Stainless                | 004-T800067-SS                        | 2          |
| 16         | Spray Shield Manifold         | 001-4435NSB                           | 2          |
| 17         | Tip (pink)                    | 004-T8001-PT                          | 2          |
| 18         | Tip (brown)                   | 004-T80015-PT                         | 2          |
| 19         | Tip (red)                     | 004-T8003-PT                          | 2          |
| 20         | Plug Allen SS                 | 003-F14A                              | 6          |
| 21         | Fitting                       | 003-A1414                             | 21         |
| 22         | Comm RB Bracket<br>600 Series | 001-4703XG                            | 1          |
|            | Shield Only Assembly          | 030-0447C-SO<br>(Includes Ref # 3-21) |            |

# Harvest Tec Model 4503B Installation Kit

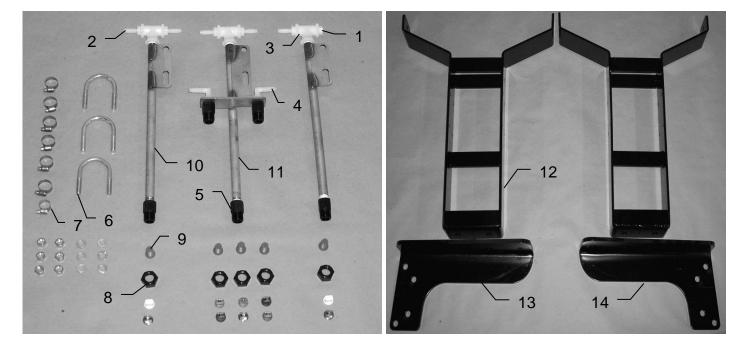




| <u>Ref</u> | <b>Description</b> | Part#        | <u>Qty</u> | ļ     |
|------------|--------------------|--------------|------------|-------|
| 1          | Plug               | 003-F14      | 1          | Tip – |
| 2          | Straight fitting   | 003-A1414    | 5          | Tip – |
| 3          | Tee                | 003-TT14     | 3          | Tip – |
| 4          | Elbow              | 003-EL1414   | 2          | Tip – |
| 5          | Nozzle body        | 004-4721     | 5          | Tip – |
| 6          | U bolt             | 001-4714UBS  | 3          | Tip – |
| 7          | Hose clamp         | 003-9002     | 7          | Tip – |
| 8          | Nozzle cap         | 004-4723     | 5          |       |
| 9          | Strainer w/check   | 004-4213-200 | 5          |       |
| 10         | Nozzle tube        | 001-4714P    | 2          |       |
| 11         | Nozzle tube auto   | 001-4714AP   | 1          |       |
| 12         | Saddle legs        | 001-4703B    | 2          |       |
| 13         | Left mtg bracket   | 001-4703EL   | 1          |       |
| 14         | Right mtg bracket  | 001-4703ER   | 1          |       |
| NP         | DCP mount          | 001-4703BPM  | 2          |       |
| NP         | 45 degree elbow    | 003-SE4514   | 5          |       |
| NP         | Jack extension     | 001-4703EXT  | 1          |       |

| <b>Description</b> | Part#          | <u>Qty</u> |
|--------------------|----------------|------------|
| - Low (silver)     | 004-650033-SS  | 3          |
| – Low (green)      | 004-XR110015VS | 1          |
| – Low (red)        | 004-XR11004VS  | 1          |
| - High (white)     | 004-650050-PT  | 2          |
| - High (orange)    | 004-XR11001VS  | 1          |
| – High (blue)      | 004-XR11003VS  | 1          |
| – High (grey)      | 004-XR11006VS  | 1          |
|                    |                |            |

# Harvest Tec Model 4504B Installation Kit



| <u>Ref</u> | <b>Description</b>      | Part#        | <u>Qty</u> | <b>Description</b>  | Part#          | <u>Qty</u> |
|------------|-------------------------|--------------|------------|---------------------|----------------|------------|
| 1          | Plug                    | 003-F14      | 1          | Tip – Low (silver)  | 004-650033-SS  | 3          |
| 2          | Straight fitting        | 003-A1414    | 5          | Tip – Low (green)   | 004-XR110015VS | 1          |
| 3          | Тее                     | 003-TT14     | 3          | Tip – Low (red)     | 004-XR11004VS  | 1          |
| 4          | Elbow                   | 003-EL1414   | 2          | Tip – High (white)  | 004-650050-PT  | 2          |
| 5          | Nozzle body             | 004-4721     | 5          | Tip – High (orange) | 004-XR11001VS  | 1          |
| 6          | U bolt                  | 001-4714UBS  | 3          | Tip – High (blue)   | 004-XR11003VS  | 1          |
| 7          | Hose clamp              | 003-9002     | 7          | Tip – High (grey)   | 004-XR11006VS  | 1          |
| 8          | Nozzle cap              | 004-4723     | 5          |                     |                |            |
| 9          | Tip strainer with check | 004-4213-200 | 5          |                     |                |            |
| 10         | Nozzle tube             | 001-4714     | 2          |                     |                |            |
| 11         | Nozzle tube auto        | 001-4714A    | 1          |                     |                |            |
| 12         | Saddle leg              | 001-4703B    | 2          |                     |                |            |
| 13         | Left mtg bracket        | 001-4703DL   | 1          |                     |                |            |
| 14         | Right mtg bracket       | 001-4703DR   | 1          |                     |                |            |
|            |                         |              | -          |                     |                |            |

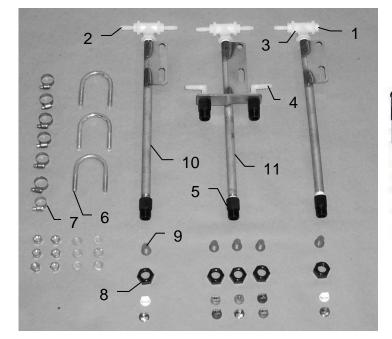
2

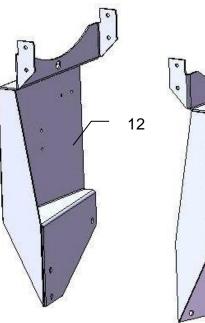
001-4703BPM

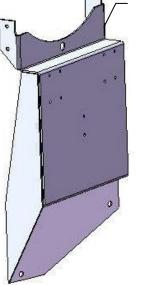
DCP mount

NP

# Harvest Tec Model 4505B Installation Kit



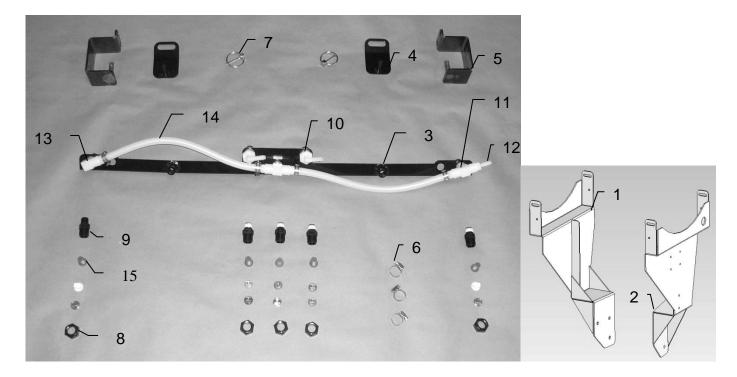




| <u>Ref</u> | <b>Description</b>      | Part#        | <u>Qty</u> |
|------------|-------------------------|--------------|------------|
| 1          | Plug                    | 003-F14      | 1          |
| 2          | Straight fitting        | 003-A1414    | 5          |
| 3          | Tee                     | 003-TT14     | 3          |
| 4          | Elbow                   | 003-EL1414   | 2          |
| 5          | Nozzle body             | 004-4721     | 5          |
| 6          | U bolt                  | 001-4714UBS  | 3          |
| 7          | Hose clamp              | 003-9002     | 7          |
| 8          | Nozzle cap              | 004-4723     | 5          |
| 9          | Tip strainer with check | 004-4213-200 | 5          |
| 10         | Nozzle tube             | 001-4714     | 2          |
| 11         | Nozzle tube auto        | 001-4714A    | 1          |
| 12         | Left saddle leg         | 001-4703FL   | 1          |
| 13         | Right saddle leg        | 001-4703FR   | 1          |

| <b>Description</b>  | Part#          | Qty |
|---------------------|----------------|-----|
| Tip – Low (silver)  | 004-650033-SS  | 3   |
| Tip – Low (green)   | 004-XR110015VS | 1   |
| Tip – Low (red)     | 004-XR11004VS  | 1   |
| Tip – High (white)  | 004-650050-PT  | 2   |
| Tip – High (orange) | 004-XR11001VS  | 1   |
| Tip – High (blue)   | 004-XR11003VS  | 1   |
| Tip – High (grey)   | 004-XR11006VS  | 1   |

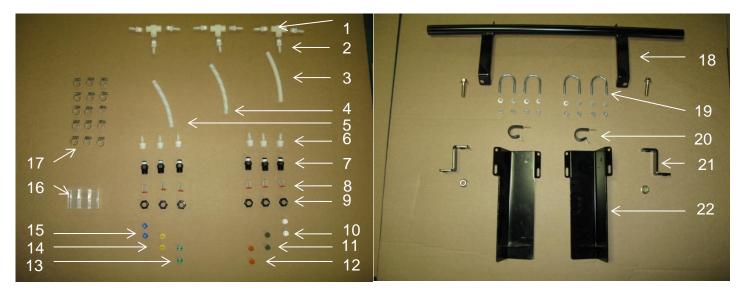
# Harvest Tec Model 4508B Installation Kit



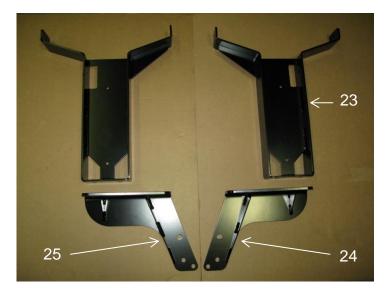
| <u>Ref</u> | <b>Description</b> | Part#        | Qty |
|------------|--------------------|--------------|-----|
| 1          | Left leg           | 001-4703L    | 1   |
| 2          | Right leg          | 001-4703K    | 1   |
| 3          | Spray shield       | 001-4703GR   | 1   |
| 4          | Shield Holder      | 001-4703JB   | 2   |
| 5          | Shield Holder      | 001-4703JC   | 2   |
| 6          | Hose clamp         | 003-9002     | 7   |
| 7          | Lynch pin          | 008-4576     | 2   |
| 8          | Nozzle Cap         | 004-4723     | 5   |
| 9          | Nozzle body        | 004-4722     | 5   |
| 10         | Elbow              | 003-EL1414F  | 2   |
| 11         | Тее                | 003-TT14SQ   | 2   |
| 12         | Straight fitting   | 003-A1414    | 5   |
| 13         | Elbow              | 003-SE14F    | 1   |
| 14         | Hose               | 002-9016     | 2   |
| 15         | Tip strainer       | 004-4213-200 | 5   |

| <b>Description</b>  | Part#          | <u>Qty</u> |
|---------------------|----------------|------------|
| Tip – Low (silver)  | 004-650033-SS  | 3          |
| Tip – Low (green)   | 004-XR110015VS | 1          |
| Tip – Low (red)     | 004-XR11004VS  | 1          |
| Tip – High (white)  | 004-650050-PT  | 2          |
| Tip – High (orange) | 004-XR11001VS  | 1          |
| Tip – High (blue)   | 004-XR11003VS  | 1          |
| Tip – High (grey)   | 004-XR11006VS  | 1          |

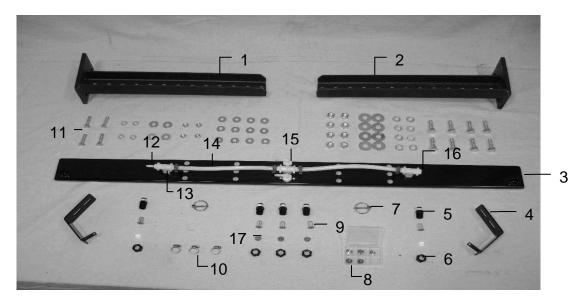
## Harvest Tec model 4517B Installation Kit For John Deere 8 & 9 Series Round Balers



| Ref | Description      | Part #        | Qty | Ref | <b>Description</b> | Part #         | <u>Qty</u> |
|-----|------------------|---------------|-----|-----|--------------------|----------------|------------|
| 1   | Тее              | 003-TT14SQ    | 3   | 13  | Tip-green          | 004-XR110015VS | 2          |
| 2   | Fitting          | 003-A1414     | 9   | 14  | Tip-yellow         | 004-XR11002VS  | 2          |
| 3   | Hose-White       | 002-9016      | 4ft | 15  | Tip-blue           | 004-XR11003VS  | 2          |
| 4   | Hose-Green       | 002-9016G     | 4ft | 16  | Mini Plano Box     | 008-9001       | 1          |
|     | Stripe           |               |     |     |                    |                |            |
| 5   | Hose-Blue Stripe | 002-9016B     | 4ft | 17  | Hose Clamps        | 003-9002       | 15         |
| 6   | Fitting          | 003-A1414F    | 6   | 18  | Nozzle Holder      | 001-4703R      | 1          |
| 7   | Fitting          | 003-4722      | 6   | 19  | 5/16" U Bolt       | 001-4714UBS    | 4          |
| 8   | Strainer         | 004-4213-200  | 6   | 20  | Jiffy Clips        | 008-9009       | 2          |
| 9   | Fitting          | 004-4723      | 6   | 21  | Spacer             | 001-4703NS     | 2          |
| 10  | Tip-white        | 004-650050-PT | 2   | 22  | Nozzle Mount       | 001-4714J      | 2          |
| 11  | Tip-olive        | 004-800067-PT | 2   | 23  | Saddle Leg         | 001-4703B      | 2          |
| 12  | Tip-orange       | 004-XR11001VS | 2   | 24  | Right Mtg Bracket  | 001-4703DR     | 1          |
|     |                  |               |     | 25  | Left Mtg Bracket   | 001-4703DL     | 1          |



# Harvest Tec Model 4523B Installation Kit

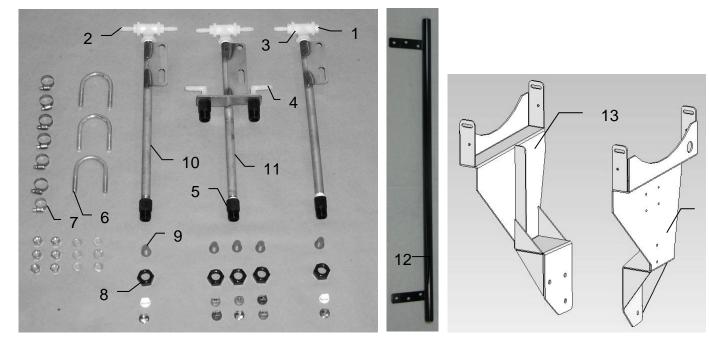


| <u>Ref</u> | <b>Description</b> | Part#        | <u>Qty</u> | <u>Ref</u> | <b>Description</b> | Part#         | <u>Qty</u> |
|------------|--------------------|--------------|------------|------------|--------------------|---------------|------------|
| 1          | Left Support Leg   | 001-4704JL   | 1          | 15         | 1/4" Elbow FPT     | 003-EL1414F   | 2          |
| 2          | Right Support Leg  | 001-4704JR   | 1          | 16         | Hex Plug           | 003-F14       | 1          |
| 3          | Spray Shield       | 001-4704G    | 1          |            | -                  |               |            |
| 4          | Lynch Pin          | 001-4704H    | 2          | 17         | Tips               |               |            |
| 5          | Nozzle Body        | 004-4722     | 5          |            | Low – Silver       | 004-650033-SS | 3          |
| 6          | Nozzle Cap         | 004-4723     | 5          |            | Low – Green        | 004-XR11015VS | 1          |
| 7          | Lynch Pin          | 008-4576     | 2          |            | Low – Red          | 004-XR11004VS | 1          |
| 8          | Plano Box          | 008-9001     | 1          |            | High – White       | 004-650050-PT | 2          |
| 9          | Strainer w/Check   | 004-4213-200 | 5          |            | High – Orange      | 004-XR11001VS | 1          |
| 10         | Hose Clamp         | 003-9002     | 7          |            | High – Blue        | 004-XR11003VS | 1          |
| 11         | Hardware           |              |            |            | High – Grey        | 004-XR11006VS | 1          |
| 12         | Straight Fitting   | 003-A1414    | 5          |            |                    |               |            |
| 13         | Тее                | 003-TT14     | 3          |            |                    |               |            |
| 14         | 1/4" Hose          | 002-9016     | 2 ft       |            |                    |               |            |



Tank Mounting Legs 001-4703B (x2)

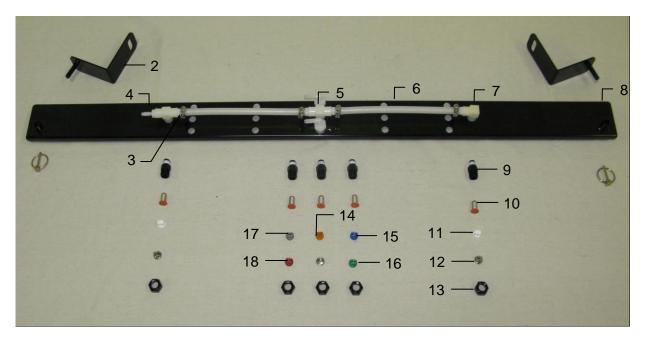
# Harvest Tec Model 4524B Installation Kit

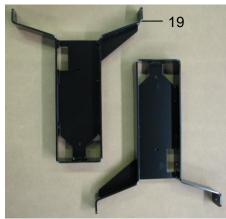


| <u>Ref</u> | Description             | Part#        | <u>Qty</u> |
|------------|-------------------------|--------------|------------|
| 1          | Plug                    | 003-F14      | 1          |
| 2          | Straight fitting        | 003-A1414    | 5          |
| 3          | Tee                     | 003-TT14     | 3          |
| 4          | Elbow                   | 003-EL1414   | 2          |
| 5          | Nozzle body             | 004-4721     | 5          |
| 6          | U bolt                  | 001-4714UBS  | 3          |
| 7          | Hose clamp              | 003-9002     | 7          |
| 8          | Nozzle cap              | 004-4723     | 5          |
| 9          | Tip strainer with check | 004-4213-200 | 5          |
| 10         | Nozzle tube             | 001-4714     | 2          |
| 11         | Nozzle tube auto        | 001-4714A    | 1          |
| 12         | Nozzle holder           | 001-4703R    | 1          |
| 13         | Left leg                | 001-4703L    | 1          |
| 14         | Right leg               | 001-4703K    | 1          |

| <b>Description</b>  | Part#          | Qty |
|---------------------|----------------|-----|
| Tip – Low (silver)  | 004-650033-SS  | 3   |
| Tip – Low (green)   | 004-XR110015VS | 1   |
| Tip – Low (red)     | 004-XR11004VS  | 1   |
| Tip – High (white)  | 004-650050-PT  | 2   |
| Tip – High (orange) | 004-XR11001VS  | 1   |
| Tip – High (blue)   | 004-XR11003VS  | 1   |
| Tip – High (grey)   | 004-XR11006VS  | 1   |

# **4526B Installation Kit**



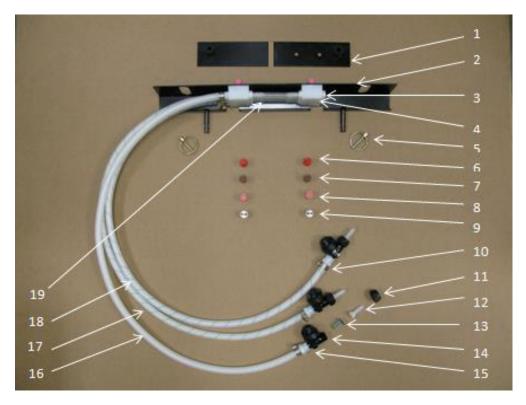




| <u>Ref</u> | <b>Description</b> | <u>Part #</u> | <u>Qty</u> |
|------------|--------------------|---------------|------------|
| 1          | 3/16" Lynch Pin    | 008-4576      | 2          |
| 2          | Shield Holder      | 001-4704MC    | 2          |
| 3          | Mini Hose Clamp    | 003-9002      | 7          |
| 4          | 1/4"FPT x 1/4"HB   | 003-A1414     | 5          |
| 5          | 1/4" Sq Tee        | 003-TT14      | 1          |
| 6          | 1/4" Hose          | 002-9016      | 1ft        |
| 7          | 1/4" Female Elbow  | 003-EL1414F   | 1          |
| 8          | Spray Shield       | 001-4704G     | 1          |
| 9          | Nozzle Body        | 004-4722      | 2          |
| 10         | Tip Strainer       | 004-4213-200  | 5          |
| 11         | Tip – White        | 004-650050-PT | 2          |
| 12         | Tips – Silver      | 004-650033-SS | 2          |
| 13         | Nozzle Cap         | 004-4723      | 2          |

| <u>Ref</u> | Description   | Part #         | <u>Qty</u> |
|------------|---------------|----------------|------------|
| 14         | Tip – Orange  | 004-XR11001VS  | 1          |
| 15         | Tip – Blue    | 004-XR11003VS  | 1          |
| 16         | Tip – Green   | 004-XR110015VS | 1          |
| 17         | Tip - Gray    | 004-XR11006VS  | 1          |
| 18         | Tip – Red     | 004-XR11004VS  | 1          |
| 19         | 55 Gal Leg    | 001-4703B      | 2          |
| 20         | Side Support  | 001-4704MA     | 2          |
| 21         | Brace Support | 001-4704MD     | 2          |
| 22         | Top Support   | 001-4704ME     | 1          |
| NP         | Hex Plug      | 003-F14        | 1          |

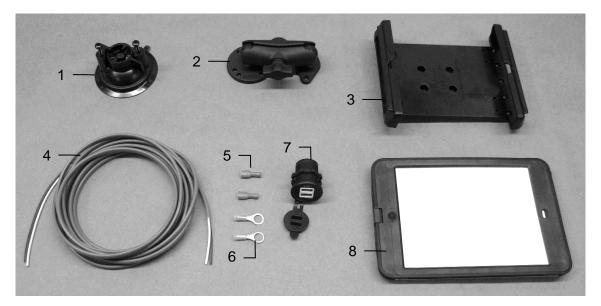
## Model 4547B Installation Kit John Deere 0 Series Round Balers



| Ref | <b>Description</b> | Part Number    | <u>Qty</u> | <u>Ref</u> | <b>Description</b>  | Part Number  | <u>Qty</u> |
|-----|--------------------|----------------|------------|------------|---------------------|--------------|------------|
| 1   | Holder             | 001-4435NCX    | 1          | 13         | Strainer            | 004-1203-100 | 3          |
| 2   | Shield             | 001-4435NSX    | 1          | 14         | Check Valve         | 004-1207VB   | 3          |
| 3   | Fitting            | 003-F14        | 3          | 15         | Fitting             | 003-A1414F   | 3          |
| 4   | Manifold Block     | 001-4435NSB    | 2          | 16         | Clear Tubing-1/4"   | 002-9016     | 4 ft       |
| 5   | Lynch Pin          | 008-4576       | 2          | 17         | Blue Stripe Tubing  | 002-9016B    | 4 ft       |
| 6   | Tip-Red            | 004-T8003-PT   | 2          | 18         | Green Stripe Tubing | 002-9016G    | 4 ft       |
| 7   | Tip-Brown          | 004-T80015-PT  | 2          | 19         | EVA-1/4"            | 002-9006     | 1 ft       |
| 8   | Tip-Pink           | 004-T8001-PT   | 2          | 20         | Saddle Leg          | 001-4703B    | 2          |
| 9   | Tip-Stainless      | 004-T800067-SS | 2          | 21         | Right Mtg Bracket   | 001-4703DR   | 1          |
| 10  | Hose Clamp         | 003-9002       | 15         | 22         | Left Mtg Bracket    | 001-4703DL   | 1          |
| 11  | Сар                | 004-4723       | 3          | NP         | 1/4" x 1/4" Fitting | 003-A1414    | 9          |
| 12  | Fitting            | 003-A1414VB    | 3          | NP         | 2" U-Bolt           | 001-4714UBX  | 2          |



# **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 <sup>®</sup> spring load cradle (Mini 4) | 001-2012SLC | 1          |
| 4          | 16 gauge power wire                                | 006-4723P   | 1          |
| 5          | Female spade connector                             | Hardware    | 2          |
| 6          | Eye loop connector                                 | Hardware    | 2          |
| 7          | iPad Mini Charger 12V                              | 001-2012P   | 1          |
| 8          | iPad Mini 4 case                                   | 001-2012C4  | 1          |

NP 4 amp fuse

Mounting Kit Assembly

030-2014MK (Includes All Parts) 1

Hardware

#### 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)**



- 4 16 gauge power wire
- 5 Female spade connector
- 6 Eye loop connector

| <u>Qty</u> | <u>Ref</u> | <b>Description</b>    | <u>Part #</u>                | <u>Qty</u> |
|------------|------------|-----------------------|------------------------------|------------|
| 1          | 7          | iPad Mini Charger 12V | 001-2012P                    | 1          |
| 1          | 8          | iPad Mini 4 case      | 001-2012C4                   | 1          |
| 1          | 9          | iPad Mini 4           | 006-4670IP                   | 1          |
| 1          | NP         | 4 amp fuse            | Hardware                     | 1          |
| 2          |            |                       |                              |            |
| 2          | Mou        | nting Kit Assembly    | 030-4670E<br>(Includes All P |            |

#### Installation Instructions

- 1. Identify 12V power source for wires to connect.
  - a. Eye loops included if wiring directly to the battery is desired.

006-4723P

Hardware

Hardware

- 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.

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

#### 647 & 649 Selecting Tips-Reference Guide

The applicator is sent from the factory with High output tips installed. The tips used are determined by how many ton per hour you are baling at. You can see this on either the automatic or manual screen.

- 1 7 tons of hay per hour
  - Too low for system to apply at. Increase baling speed or rake more hay together. System will show over application when at these tonnages.
- 8-27 tons of hay per hour, 32 440lbs of hay preservative per hour (14-200L/hr)
  - Use low output tips
    - o For most balers
      - Pump 1 = Qty 3 (650033-SS) Silver
      - Pump 2 = Qty 1 (XR110015VS) Green
      - Pump 3 = Qty 1 (XR11004VS) Red
    - For John Deere 8 and 9 Series balers (2013 and newer)
      - Pump 1 = Qty 2 (650050-PT) White
      - Pump 2 = Qty 2 (800067-PT) Olive
      - Pump 3 = Qty 2 (XR11002VS) Yellow
- 21 40 tons of hay per hour, 84– 632lbs or hay preservative per hour (38-287 L/hr)
  - Use high output tips
    - o For most balers
      - Pump 1 = Qty 2 (650050-PT) White and Qty 1 (XR11001VS) Orange in the center
      - Pump 2 = Qty 1 (XR11003VS) Blue
      - Pump 3 = Qty 1 (XR11006VS) Gray
    - For John Deere 8 and 9 Series balers (2013 and newer)
      - Pump 1 = Qty 2 (XR11001VS) Orange
      - Pump 2 = Qty 2 (XR110015VS) Green
      - Pump 3 = Qty 2 (XR11003VS) Blue

#### 647C Selecting Tips-Reference Guide

The applicator is sent from the factory with High output tips installed. The tips used are determined by how many ton per hour you are baling. You can see this on either the automatic or manual screen.

- 1-7 tons of hay per hour
  - Too low a level for the system to apply at. Increase baling speed or rake more hay together. System will show over application when at these tonnages.
- 8 27 tons of hay per hour, 32 440 lbs of hay preservative per hour (14-200L/hr)
  - Use low output tips
    - For most 4 ft balers

| • | Pump 1 = Qty 2 | 004-T800067-SS | 80 degrees | Silver |
|---|----------------|----------------|------------|--------|
| • | Pump 2 = Qty 2 | 004-T8001-PT   | 80         | Pink   |
| - | Pump 3 = Qty 2 | 004-T80015-PT  | 80         | Brown  |

- 21 40 tons of hay per hour, 84 632 lbs or hay preservative per hour (38-287 L/hr)
  - Use high output tips
    - For most 5 ft balers

| • | Pump 1 = Qty 2 | 004-T8001-PT  | 80 degrees | Pink  |
|---|----------------|---------------|------------|-------|
| • | Pump 2 = Qty 2 | 004-T80015-PT | 80         | Brown |
| • | Pump 3 = Qty 2 | 004-T8003-PT  | 80         | Red   |

# 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. 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, LLC. 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