

Installation Manual

Model 347U, 347UP & 347P ***25 Gallon and 55 Gallon*** ***Automatic Preservative Applicator***



*Equipment and Products
for Quality Hay.™*

P.O. Box 63 • 2821 Harvey Street • Hudson, WI 54016
800-635-7468 • www.harvesttec.com

DECLARATION OF INCORPORATION



MANUFACTURER:

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

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

The person above certifies and declares that:

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

MODEL: 347U-347UP-347P-23-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 Parliament and the Council of 17 May 2006 and other applicable European Directives including Directive 2004/108/EC on the Electromagnetic compatibility.

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

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

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

Harvest Tec 347U / 347UP / 347P Table of Contents

	<u>Page</u>
Introduction	4
Tools needed	4
Installation of applicator	5-17
Tank Brackets- 347U	5
Tank Brackets- 347UP	5-6
Tank Saddle and Tank Mounting- 347U / 347UP	6
Drain-Fill Line- 347U / 347UP	7
Pump Plate and Control Box Mounting- 347U / 347UP	7
347P Tank and Saddle Installation	8-9
347P Pump Manifold Installation	10-11
347P Drain-Fill Kit Installation	11
Installation of End of Bale Sensor	12
Installation of Moisture Sending Pads	13-15
347U / 347UP	13
347P	14-15
Placement of Nozzle Holders	15-16
347U / 347UP	15
347P	16
Installation of Plumbing	16
Installation of iPad Integration Control	17
iPad Integration Control Light Signals	17
Bluetooth Receiver Lights	17
Wiring Diagram	18
Pin Outs	19-20
Parts Breakdowns	21-30
347U/347UP Base Kit	21
347P Base Kit	22
Pump and Pump Plate Assembly	23
Control Box and Wiring Harnesses	24
End of Bale Sensor Kit	24
300 Solenoid Package	25
Hoses	25
Moisture Sensors	26
Parts Bag Packages	26
Optional High Output Kit	27
Optional iPad Display and Mounting Kit	28
347U/347UP Install Kit	29
347P Install Kit	30
Notes	31-32
Warranty Statement	33

Introduction

Congratulations and thank you for purchasing a Harvest Tec Model 347U, 347UP or 347P applicator. Please read this manual carefully to ensure correct steps are taken to attach the applicator to the baler. This applicator is designed to apply Harvest Tec buffered propionic acid.

Use of alternative products may cause complications including, but not limited to, inaccurate readings from the flow meter and damage to all parts which may come in contact with the alternative products. Use of alternative products results in the warranty being void.

A parts breakdown for the applicator system is located in the back of the manual for identification of replacement parts.

Hay App version must be **at least 2.7.1* (or higher)** to operate with the iPad* Integration Module (030-6672C)

***Made for iPad® running the current iOS operating system**

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

Tools Needed

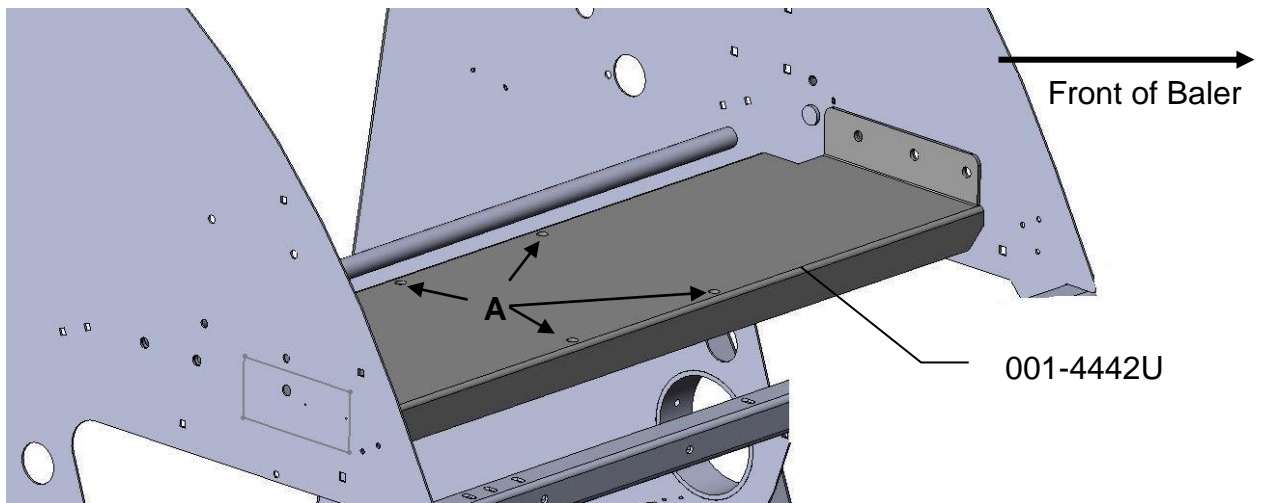
- Standard socket set
- Standard screw driver or 5/16" nut driver
- Side cutter
- Hose cutter
- Crescent wrench
- Hammer
- Metal drilling and cutting tools
- Center Punch

Installation of Applicator

Tank Brackets- 347U

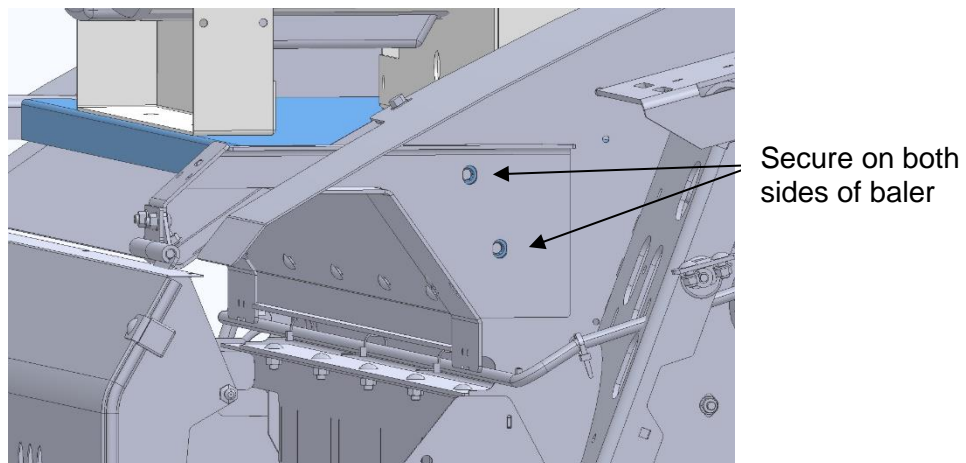
Locate the tank base bracket (001-4442U). This bracket will mount on the front of the baler as shown below. Depending on the year of the baler only two of the required three holes may be premade on the baler. Mark and drill two 1/2" (13mm) holes (one per side) if necessary.

Be sure to check behind the area before drilling to ensure there is nothing that will be damaged. The bracket will be secured on each side with three 1/2" x 1 1/4" hex bolts, six flat washers, three lock washers, and three hex nuts. Secure the left side of the baler first. Slide the supplied shims (001-4442US), if necessary, between the tank base bracket and the baler side wall if necessary. The shims need to be installed to prevent the balers side wall from pulling in once the tank base bracket hardware is tightened. Tighten all hardware.

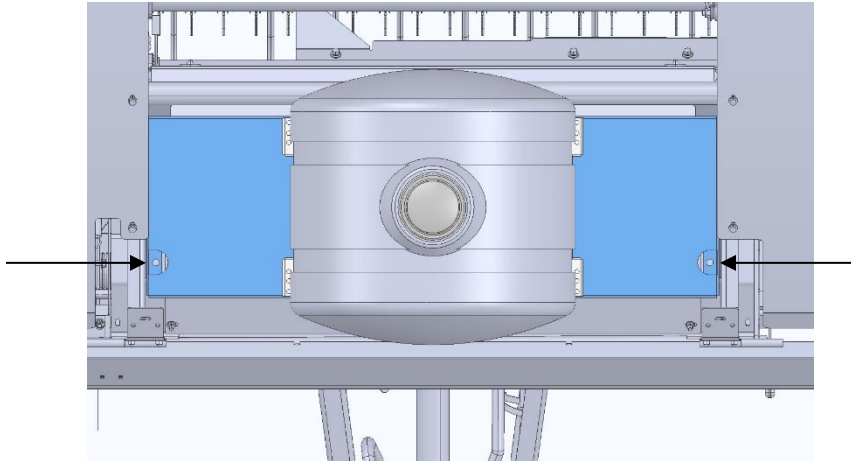


Tank Brackets - 347UP

Place the base bracket (001-4442PU) between the side sheets and fasten with 2x 1/2-13 hex bolt, lock washer, flat washer from the outside of the side panel on EACH SIDE, into the weld nuts on the base bracket.

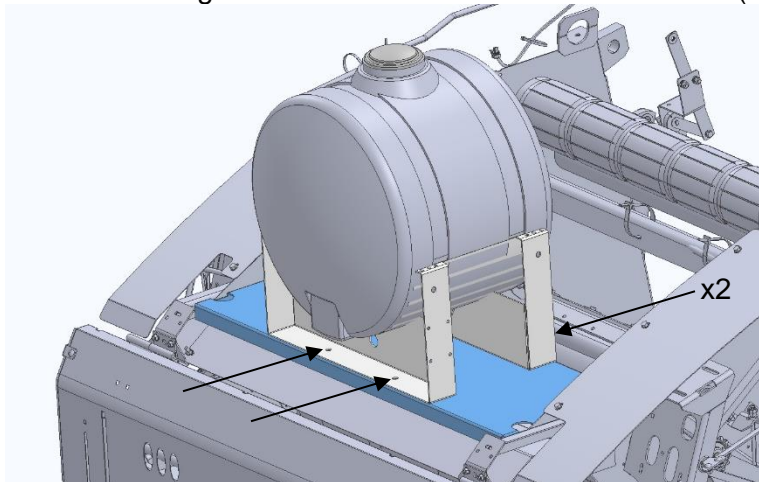


With the front mounting tabs resting on top of the net-wrap shield, use the holes in the tabs as a guide to drill two 9/16" holes. Secure the tabs to the baler by running a 1/2"-13 x 1-1/4" hex bolt and flat washer up from inside of the netwrap shield and secure on the top side with 1/2" lock washer and nut.



Tank Saddle and Tank Mounting - 347U / 347UP

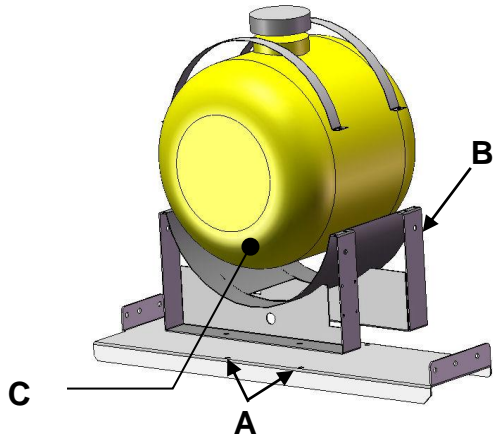
Attach the 25 gallon flat bottom tank saddle to the top of the base bracket by inserting 1/2"-13 x 1-1/4" hex bolt, 1/2" lock washer, and 1/2" flat washer through saddle into weld nuts on base bracket (x4). Tighten all hardware.



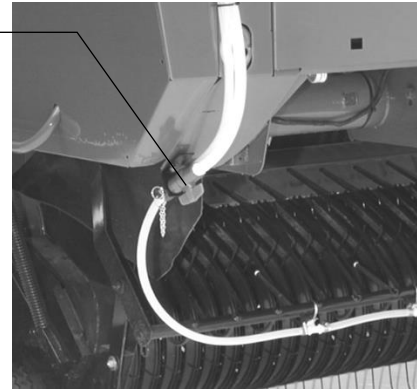
Mount the tank on the tank base bracket (001-4442U/01-4442UP) as shown below and on the previous page. The position the tank and saddle so that the additional side hole on the tank will be facing the front of the baler. The tank saddle will have four holes that will line up with point A as shown below. Use four 1/2" x 1 1/4" hex bolts, four flat washers, and four lock washers to secure the tank to points A.

Installation of Drain-Fill Line 347U / 347UP

Locate parts bag 1 (PBA-1). The drain/fill line will connect to the tank at point C. 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. Drill 1/4" (7mm) holes to accept the valve holder bracket and use 5/16" x 1 1/4" self-tapping screws. Connect valve assembly to other end of hose. Place hose clamps on both ends. The drain/fill line needs to be used for all filling or draining of the tank. Fill or drain from ground level only.



Valve bracket and
quick coupler



Pump Plate and Control Box Mounting 347U / 347UP

Locate the controls package. Position the control box (006-3671RB) as shown on right. If the mounting holes are not pre-drilled on the tank saddle (001-4442), drill four 1/4" (7mm) holes. Using the supplied 10/32 x 3/4" Phillips flathead machine screws, nylock washers and nuts to mount the control box.



347P

Tank and Saddle Installation

1. Locate the left saddle leg, 001-4703XPL, and mount to the left side of baler. Locate one leg shim bracket, 001-4703XS, and place in between the leg and side of the baler. Use three 1/2" x 1-1/4" hex bolts, 1/2" lock washers, and two 1/2" flat washers. Do not fully tighten.
2. Locate the right saddle leg, 001-4703XPR, and mount to the right side of baler. Locate one leg shim bracket, 001-4703XS, and place in between the leg and side of the baler. Use three 1/2" x 1-1/4" hex bolts, 1/2" lock washers, and two 1/2" flat washers. Do not fully tighten.
3. Tighten the hardware attaching the saddle legs, 001-4703XPL & 001-4703XPR, and legs shims, 001-4703XS, to the side sheets of the baler.
4. Install the tank assembly (tank, 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.
5. Locate the tank support bracket, 001-4703XPG, and mount between the bottom of the saddle pan, 001-4703X, and the sheet metal covering the air tank using two 3/8" x 1" hex bolts, 3/8" lock washers, 3/8" flat washers and 3/8" nuts.
6. Locate the beacon bracket, 001-4703XBM, and attach to the top of the right saddle leg, 001-4703XPR, using four 3/8" x 1" hex bolts, 3/8" flat washers, 3/8" lock washers, and 3/8" hex nuts.

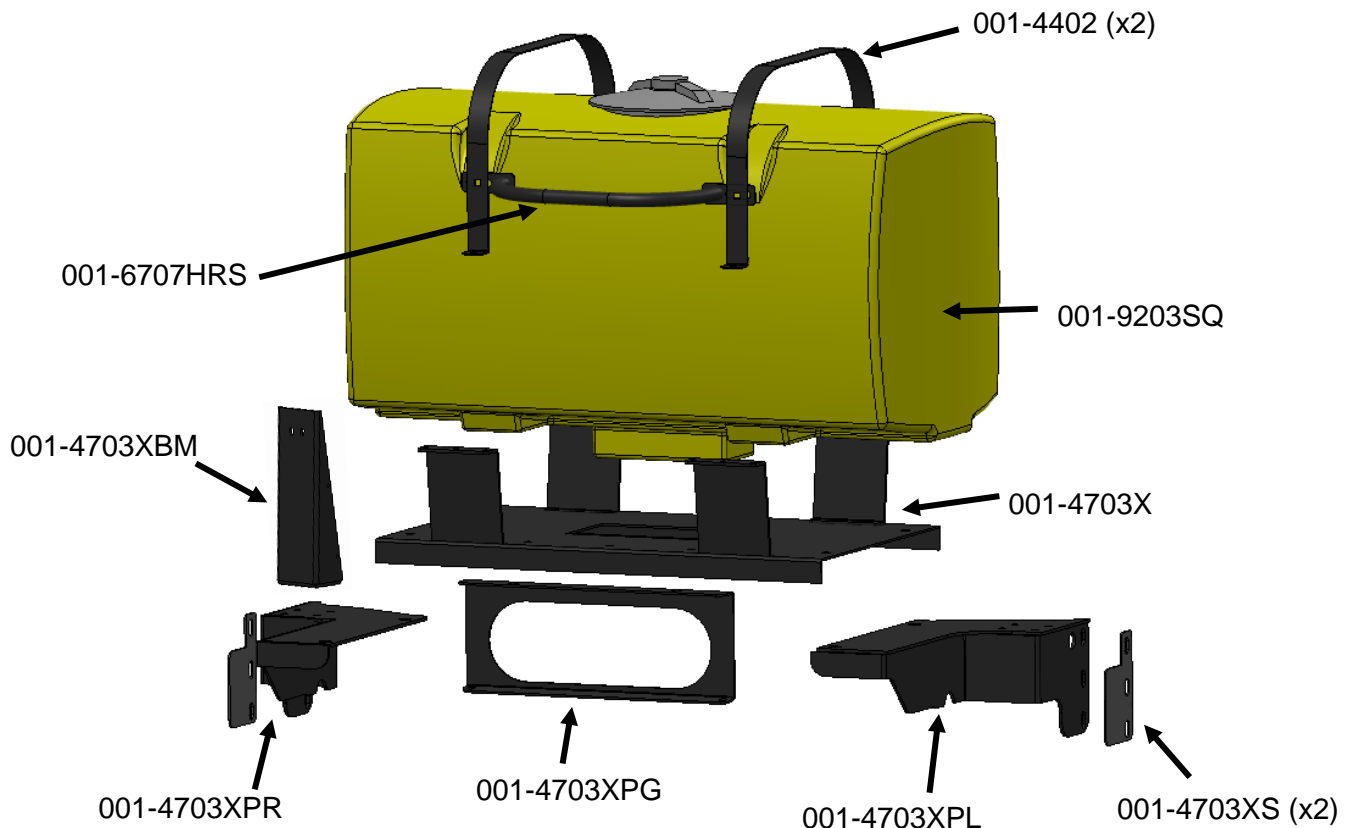
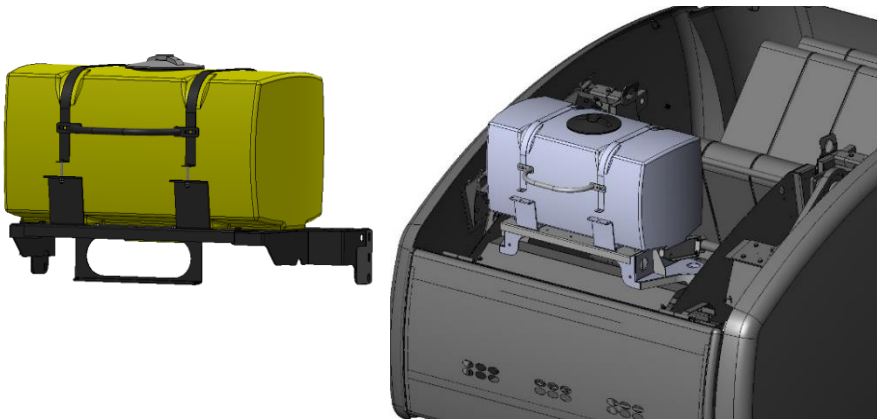


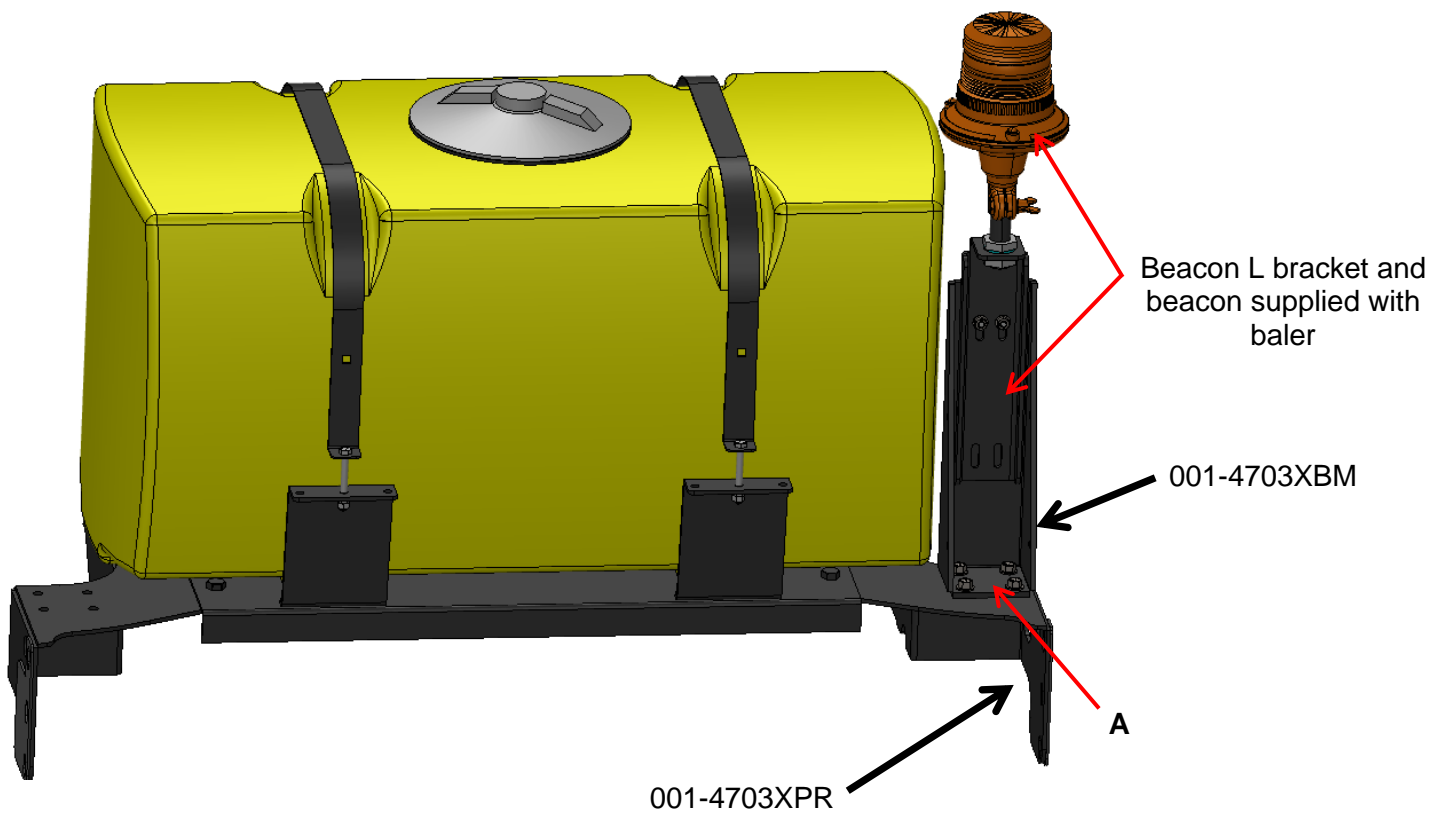
Figure 1

Tank and Saddle Installation (continued)



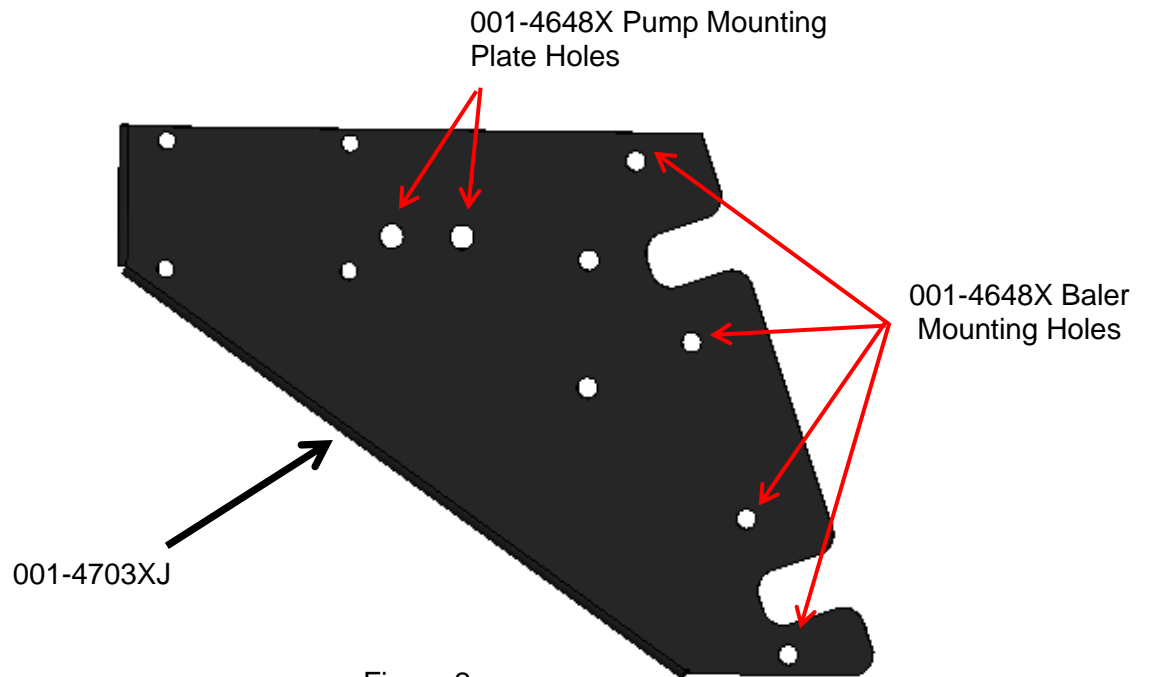
Installation of Optional Beacon

1. Bolt beacon L-Bracket to beacon support (001-4703XBM) using two 5/16" x 3/4" bolts and 5/16" flange nuts.
2. Secure beacon support to top of right saddle leg (001-4703XPR) at point A using four 3/8" x 1" hex bolts and flange nuts.



Installation of Pump Manifold 347P

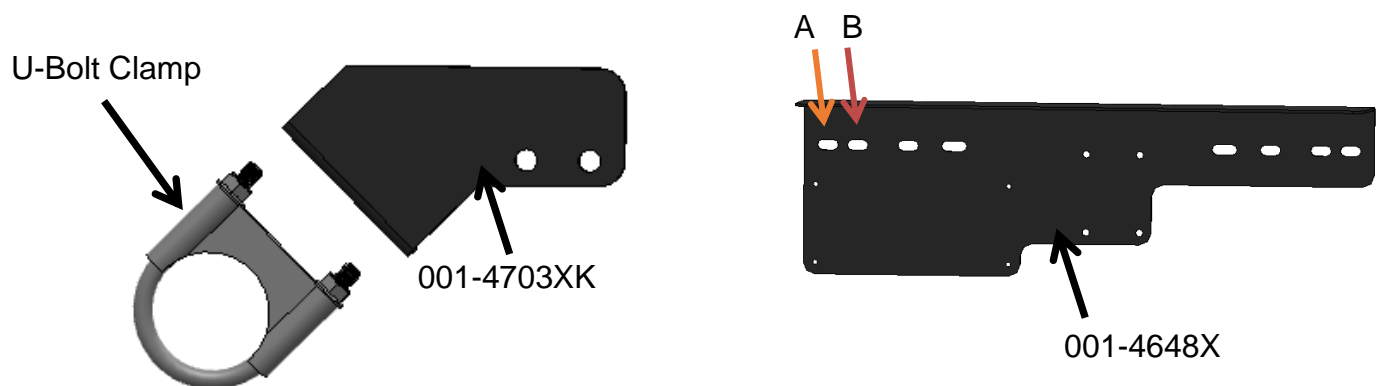
Mounting Front Pump Plate Support



1. Open right-side door of baler.
2. Locate mounting holes for your size baler in bracket (001-4703XJ). 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 5/16" x 1" hex bolts, flats, locks and nuts.

Mounting Rear Bracket and U-Bolt Clamp

The mounting bracket 001-4703XK will be used to mount the rear of the pump plate bracket to the stub pipe shown in figure 5. Use two 3/8" x 1" bolts, flats, locks, and nuts to bolt them together. U-bolt around pipe shown in figure 5.



Installation of Control Manifold (continued)

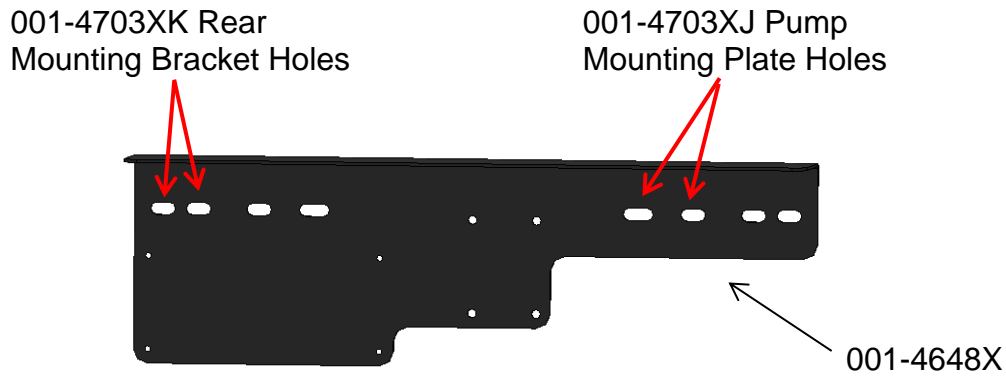


Figure 4

Use two 3/8" x 1" hex bolts, flat washers, lock washers, and nuts to secure Pump Plate Bracket (001-4703XJ) to back side of Pump Mounting Bracket (001-4648X). Use holes designated in Figure 4 on the Pump Plate Bracket (001-4703XJ). Slide the Pump Plate Bracket (001-4703XJ) so it touches the door support bracket. Attach pump plate with pump onto Mounting Plate (001-4648X) bracket with 3/8" x 1" bolts.

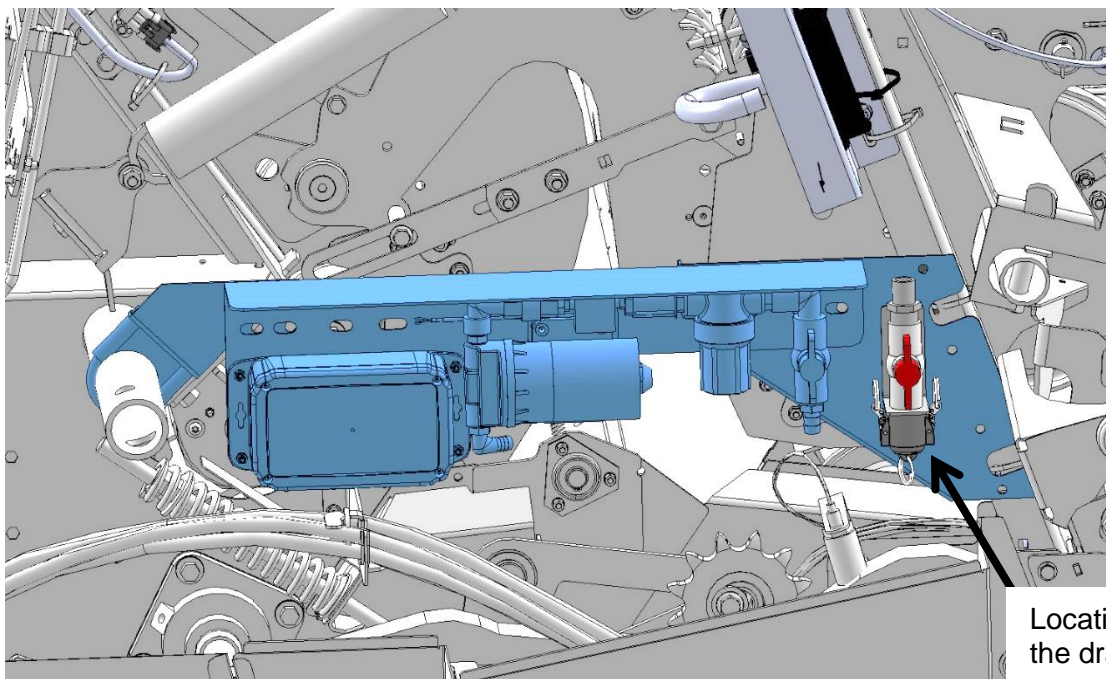


Figure 5

Installation of Drain-Fill Kit 347P

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.

***Secure hose to frame using cable locks.**

Installation of End of Bale Sensor

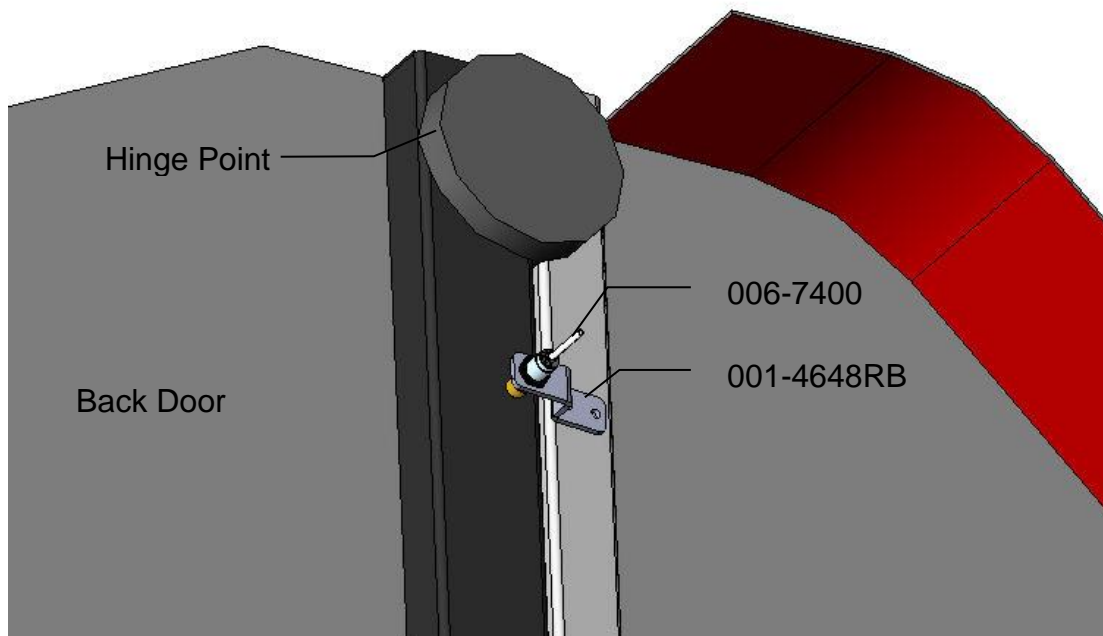
The bale rate timer sensor is used to determine when the baler door is open. With this information the system is able to change the tons/hour automatically (see Operating Instructions, Automatic Mode).

Locate the sensor (006-7400) and the sensor bracket (001-4648RB). On the right side of the baler find a location 1"– 6" 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 1/4" (7mm) of clearance between the end of the sensor and the door.

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



View of the right side of baler

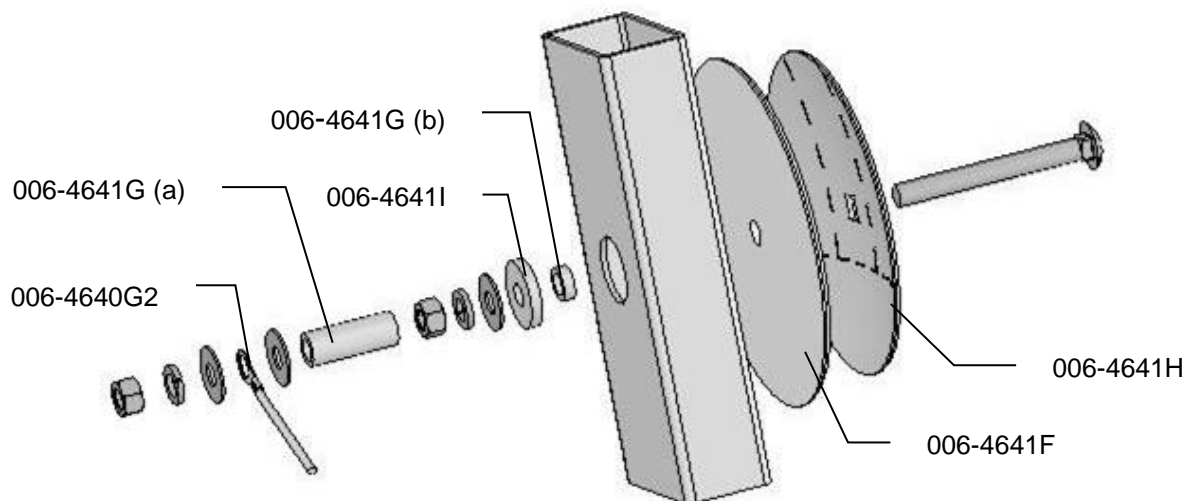
Front of baler
→

Installation of Moisture Sensor Pads 347U / 347UP



Figure 1

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 1).
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 (Figure 1).



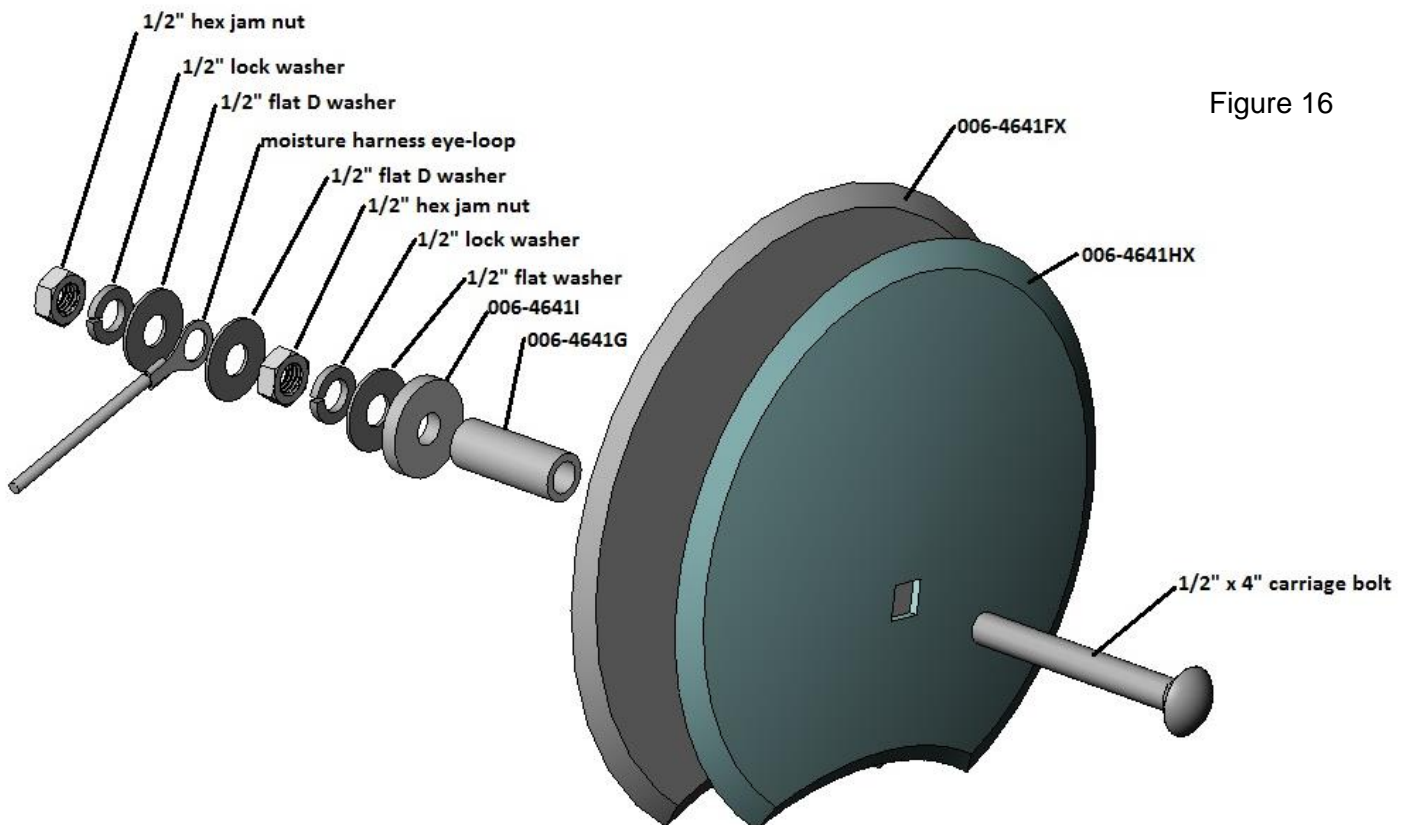
4. Locate the 006-4641G (a) piece, this will need to be cut down to size. Use the already machined line in the bushing to cut off the small piece shown above 006-4641G (b). Part 006-4641I may also need to be trimmed to fit.
5. Depending on the baler the bolt may need to be trimmed for proper fit.
6. 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 pump plate area to each disc securing with cable ties.

Installation of Moisture Sensor Pads and Disks

347P

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 been. 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, 2" (51mm) in size. 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" (102mm) 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 (006-4640GX) 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.
8. Attach moisture cable to moisture carriage bolt by placing items in the following order: 1/2" D shaped washer, Ring terminal of moisture harness (006-4640G2), 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.



Installation of Moisture Sensor Pads and Disks (continued)

OSR (over-shot)

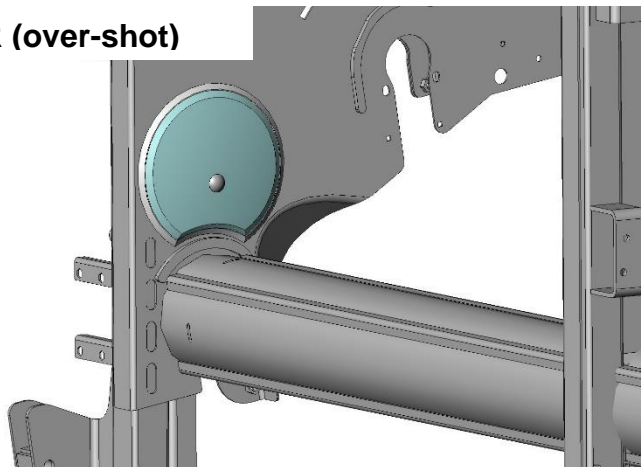


Figure 17

USR (under-shot rotor)

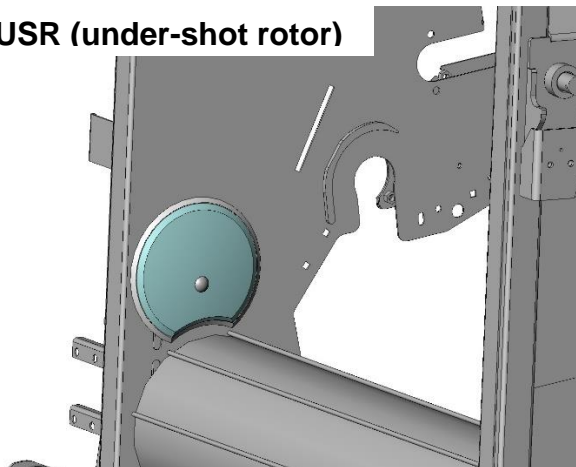


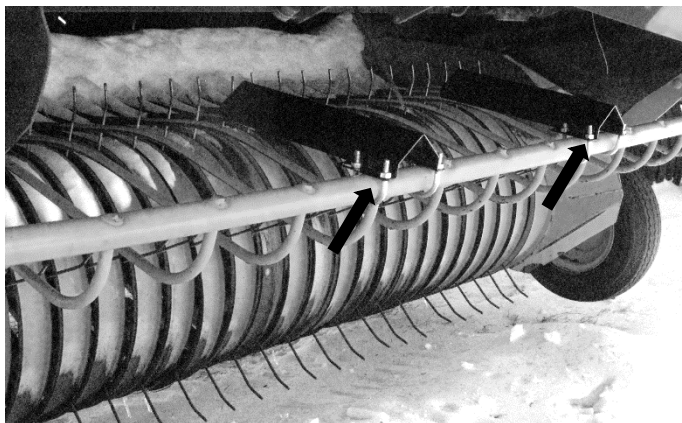
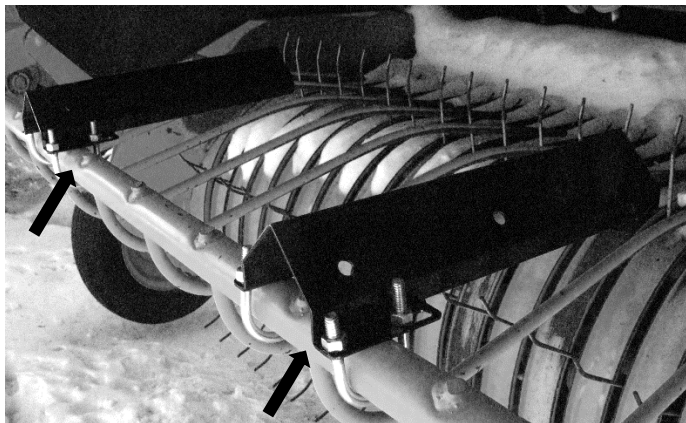
Figure 18

Placement of Nozzle Holders

347U/347UP Install Kit

The cross bar on the wind guard above the pick-up head provides a mounting point for the nozzle holders (001-4714J). Mount the nozzle holders on the wind guard, using the supplied U bolts (001-4714UBS). Measuring from the center of the baler, the nozzle holders will need to be 6" (15cm) apart on a 4' (1.2M).

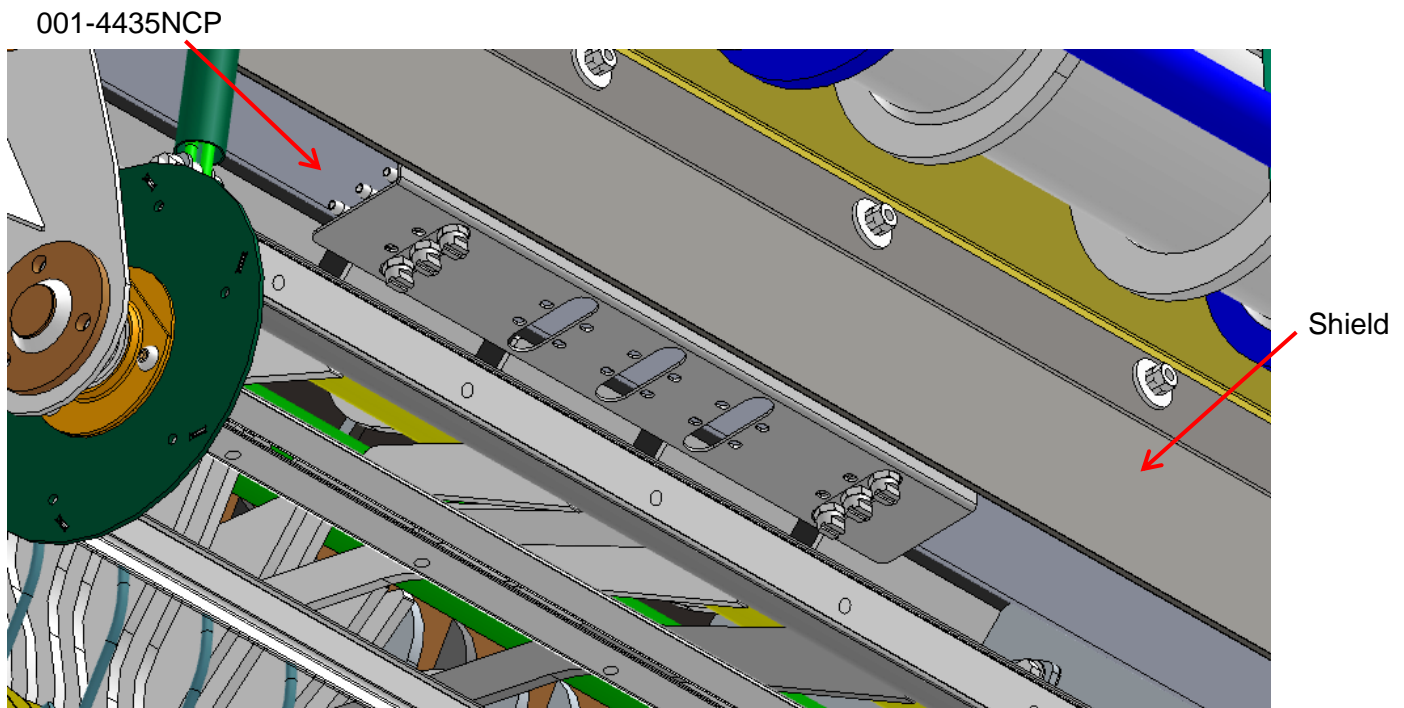
Position the nozzle holders so that the tips spray in a horizontal direction over the top of the baler's pickup. The tips should be located so that they will be between 14" and 18" (35 - 45 cm) from the normal path of hay. Make sure the tubes do not interfere with the tying system. *It is recommended to test the system with water prior to field operation. This will ensure the fan pattern from the tips reaches the outside edges of the pickup while having a slight overlap in the center.



Installation of Spray Shield

347P Install Kit

1. Locate the shield under the frame.
2. Position the spray shield support (001-4435NCP) behind the shield with the formed flange to the rear.
3. Attach spray shield support to baler frame with one 3/8" x 1" bolt, lock washer, and nut on each side.
4. Insert pins of spray shield assembly into support and secure with two quick clips.
5. Adjust spray direction by swiveling spray shield support. Tighten.



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

Installation of Plumbing

A. Intake

Locate parts bag 16. Use the 003-EL3412 on the bottom of the tank to route 1/2" line (002-9001) to the 003-A1212 or 003-EL1212 fitting used on the ball valve attached to the pump plate. Attach hose clamps (003-9003) on both of the fittings.

B. Discharge

Route the 1/2" hose from the pump output toward the front of the baler and connect to the solenoid assembly (SOL-3SP-A). Secure the solenoid assembly and hose along baler, positioning the solenoid as close to the spray tips as possible. Connect the 1/4" hose to the outgoing side of the solenoid to tip assembly.

C. Low, Standard and High Output Tips

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

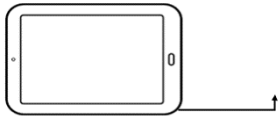
- Low set will cover outputs of 60-300 lbs/hr (27-300 L/hr).
- Standard set will cover outputs of 48-448 lbs/hr (21-203 L/hr).
- High (optional) set will cover outputs of 80-800 lbs/hr (36-363 L/hr). Additional High Output Kit required.

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

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

Red Light – The Bluetooth receiver has power

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



300 Series Applicators with serial number before THS0700 will require the THS to be sent to Harvest Tec for a required update in order to use the iPad Integration Module (030-6670C)

Hay App version must be **at least 2.7.1 (or higher)** to operate with the iPad Integration Module (030-6672C)

*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.

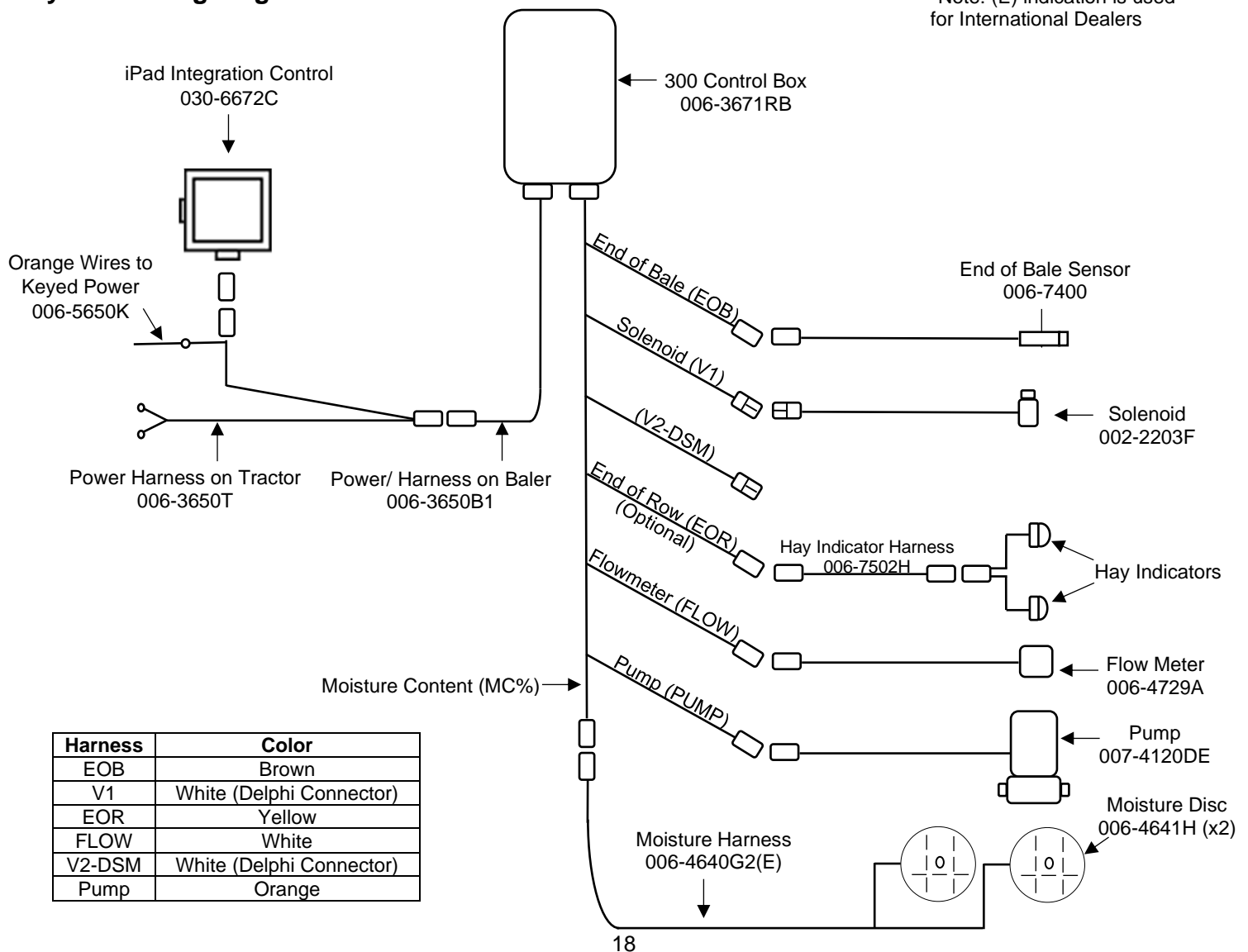
Wiring Diagram

1. Connect the power harness (006-3650T) to the tractor battery (12 volt) using the red wire with fuse to the positive side and the black wire to the negative.
 - 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 BEFORE MODIFICATIONS.**
 - b. **This unit will not function on positive ground tractors.**
 - c. **If the unit loses power while operating it will not keep track of accumulated pounds of product used.**
2. The power harness on the tractor (006-3650T) will run from the tractor battery to the hitch. The power harness on the baler (006-3650B1) will connect to the tractor power harness (006-3650T) at the hitch.
3. Connect the keyed power wire (006-5650K) to a keyed power source on the tractor. **The keyed power wire must connect to a keyed source or the unit will not power up correctly.**
4. Attached the iPad Integration Control (030-6672C) to the tractor power harness (006-3650T).
5. Attach the End of Bale (EOB) connection on the controller to the End of Bale Sensor (006-7400).
6. Attach the Solenoid (V1) (Delphi connector) connection on the controller to the wire from the solenoid (002-2203F). Note: If solenoid is connected to V2-DSM (not used) connection, solenoid will not work.
7. Attach the Flowmeter (FLOW) connection on the controller to the flowmeter (006-4729A).
 - a. Attach the spade connectors on the FLOW harness to the Pump (007-4120DE).



System wiring diagram

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



Pin Outs

Tractor Power Harness 006-3650T at Tractor Hitch

Pin 1	Red	+12V Power to BLE
Pin 2	Red	+12V Power to THS
Pin 3	Orange	Keyed Power
Pin 4	Not Used	
Pin 5	Green	HT Can Low
Pin 6	Yellow	HT Can Hi
Pin 7	Not Used	
Pin 8	Black	Ground from BLE
Pin 9	Black	Ground from THS
Pin 10	Not Used	



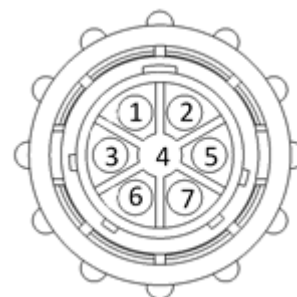
Baler Power Harness 006-3650B1 at Baler Hitch

Pin 1	Red	+12V Power to BLE
Pin 2	Red	+12V Power to THS
Pin 3	Orange	Keyed Power
Pin 4	Not Used	
Pin 5	Green	HT Can Low
Pin 6	Yellow	HT Can Hi
Pin 7	Not Used	
Pin 8	Black	Ground from BLE
Pin 9	Black	Ground from THS
Pin 10	Not Used	



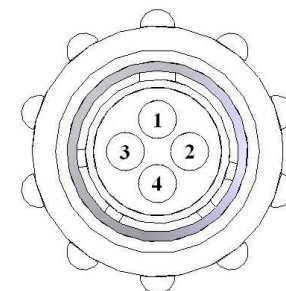
iPad Integration Control / BLE on Tractor Harness 006-3650T

Pin 1	Red	+12V Power for BLE
Pin 2	Black	Ground for BLE
Pin 3	Yellow	HT Can Low
Pin 4	Not Used	
Pin 5	Green	HT Can Hi
Pin 6	Not Used	
Pin 7	Not Used	



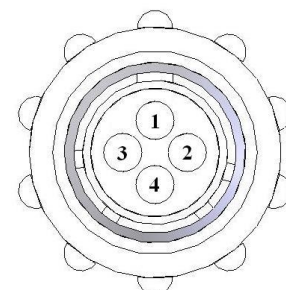
End of Bale Sensor at 300 Controller Harness

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



Flow Meter at 300 Controller Harness

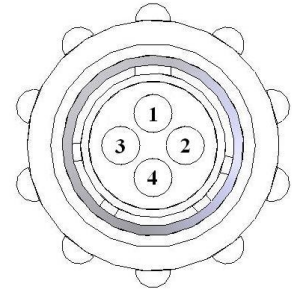
Pin 1	White	+5-12V Power
Pin 2	Brown	Ground
Pin 3	Green	Signal
Pin 4	Not Used	



Pin Outs (continued)

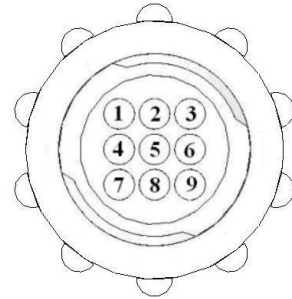
End of Row Sensor at 300 Controller Harness

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



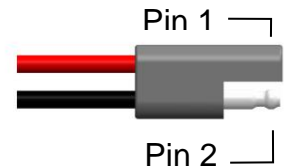
Moisture Sensor connection at 300 Controller Harness

Pin 1	Not Used	
Pin 2	Not Used	
Pin 3	Not Used	
Pin 4	Not Used	
Pin 5	Not Used	
Pin 6	Not Used	
Pin 7	Not Used	
Pin 8	Blue	Signal for Sensor 1
Pin 9	Blue	Signal for Sensor 2



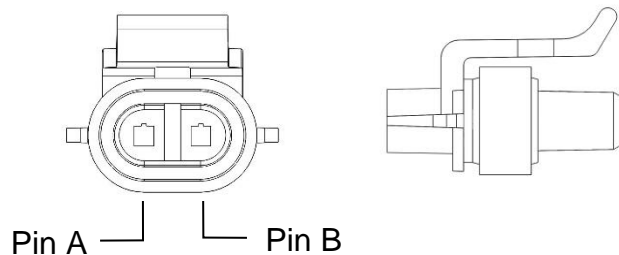
Pump connection at 300 Controller Harness

Pin 1	Red	Power to Pump
Pin 2	Black	Ground to Pump



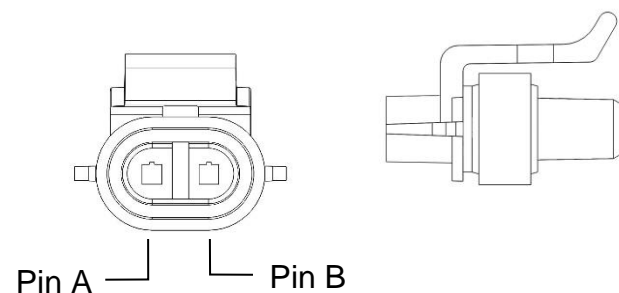
Solenoid Connection at 300 Controller Harness

Pin A	Black	Solenoid Pause
Pin B	White	Solenoid Ground

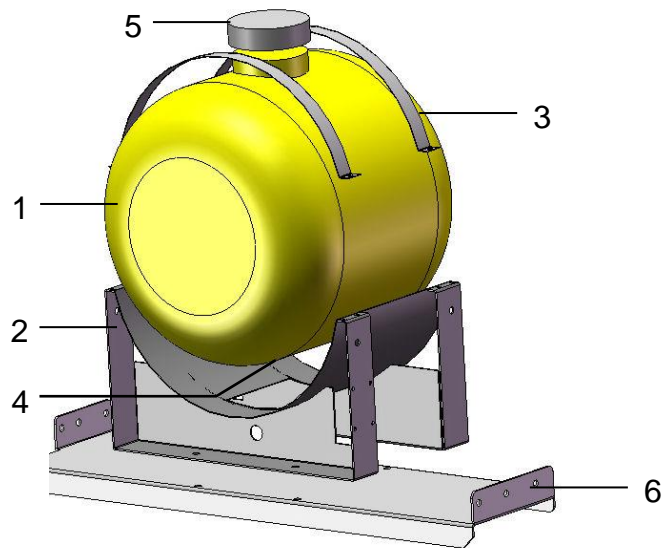


V2-DSM Connection at 300 Controller Harness

Pin A	Black	Solenoid Pause
Pin B	White	Solenoid Ground

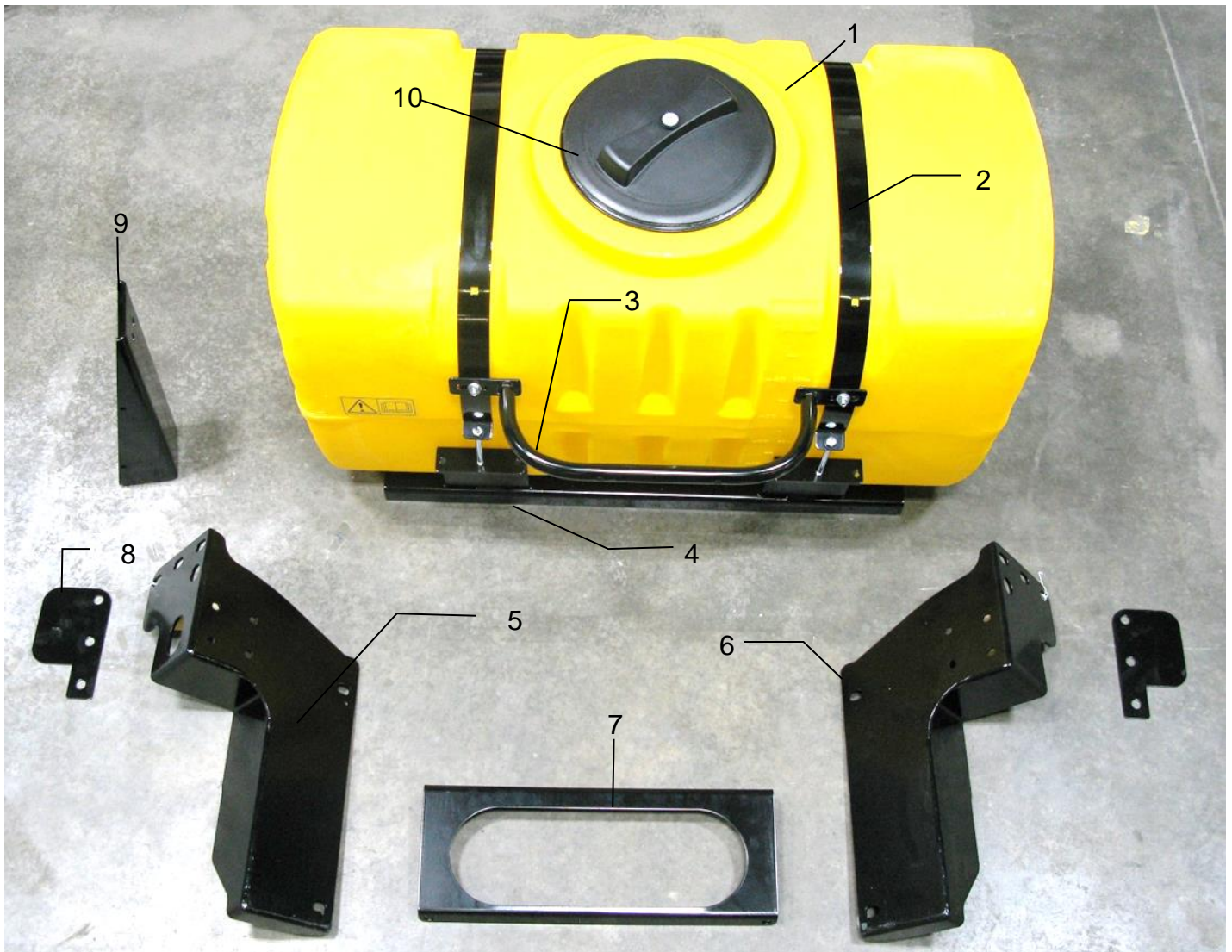


Model 347U/347UP Base Kit



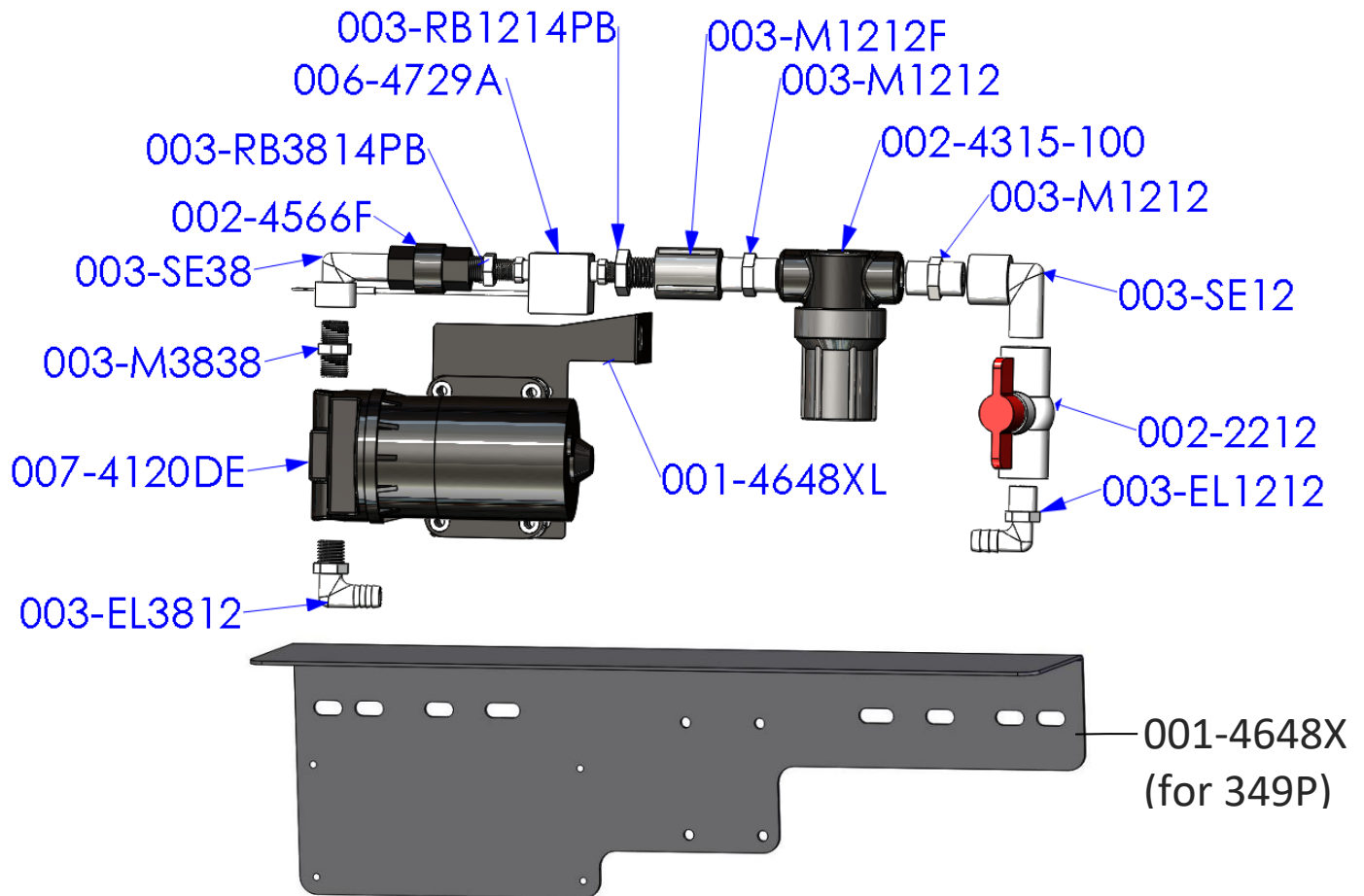
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	25 Gallon tank	005-9022	1	5	Tank lid	005-9022C	1
2	25 Gallon saddle	001-4442	1		Tank lid gasket	005-9022CG	1
3	Strap	001-4402	2	6	Tank mounting bracket	001-4442U	1
4	Tank fitting	005-9100	2		Tank Mounting bracket for 450 Roll Belt	001-4442UP	
Tank Saddle Kit						030-044225-TK (1-5)	

Model 347P Base Kit



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	50 Gallon tank	030-9203SQ	1	7	Tank Support	001-4703XPG	1
2	Tank Strap	001-4402	2	8	Leg Shim	001-4703XS	2
3	Hand Rail	001-6707HRS	1	9	Beacon Bracket	001-4703XBM	1
4	Saddle	001-4703X	1	10	Tank Cap and Gasket	005-9022H	1
5	Left Tank Leg	001-4703XPL	1				
6	Right Tank Leg	001-4703XPR	1		Tank Kit Assembly	030-0447P-TK (1-10)	

Parts Breakdown for Pump Assembly



Part#	Description	Qty	Part#	Description	Qty
003-EL3812	3/8" MPT X 1/2" HB Elbow	1	003-M1212	1/2" Union	2
007-4120DE	300 Series Pump	1	002-4315-100	1/2" Line Strainer-100 Mesh	1
003-M3838	3/8" x 3/8" Union	1	003-SE12	1/2" Street Elbow	1
003-SE38	3/8" Street Elbow	1	002-2212	1/2" Ball Valve	1
002-4566F	3/8" Check Valve	1	003-EL1212	1/2" MPT x 1/2" HB	1
003-RB3814PB	RB 3/8" x 1/4" Reducer	1	001-4648XL	300 Pump Support	1
006-4729A	Flow Meter – Block Style	1	001-4648X	Pump Plate Mount	1
003-RB1214PB	RB 1/2" x 1/4" Reducer	1	003-A1212	Not Pictured	
003-M1212F	1/2" Coupler	1	003-A3812	Not Pictured	

Pump Assembly PMP-3636P (001-4648X Not Included)

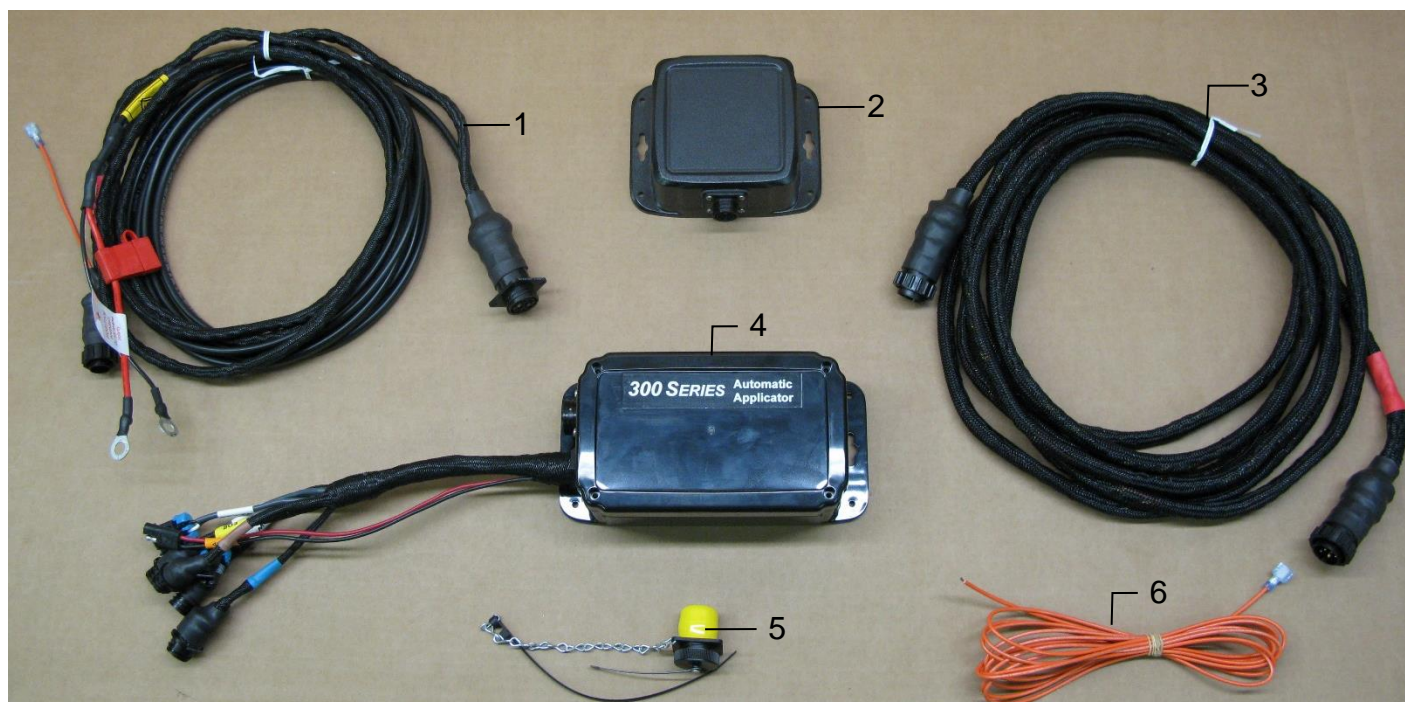
Pump Plate Support 001-4703XJ
Rear Bracket 001-4703XK
U-Bolt Clamp (001-4703XU)

Completed Assembly- 349P



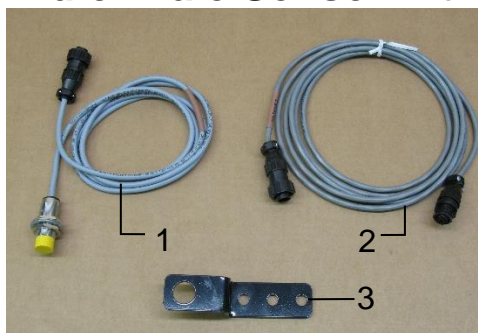
*Note: Due to alternative baler designs, elbow 003-EL3812 can be replaced by straight fitting 003-A3812. As well as elbow 003-EL1212 can be replaced by straight fitting 003-A1212. Both straight fittings are included.

Control Box and Wiring Harnesses



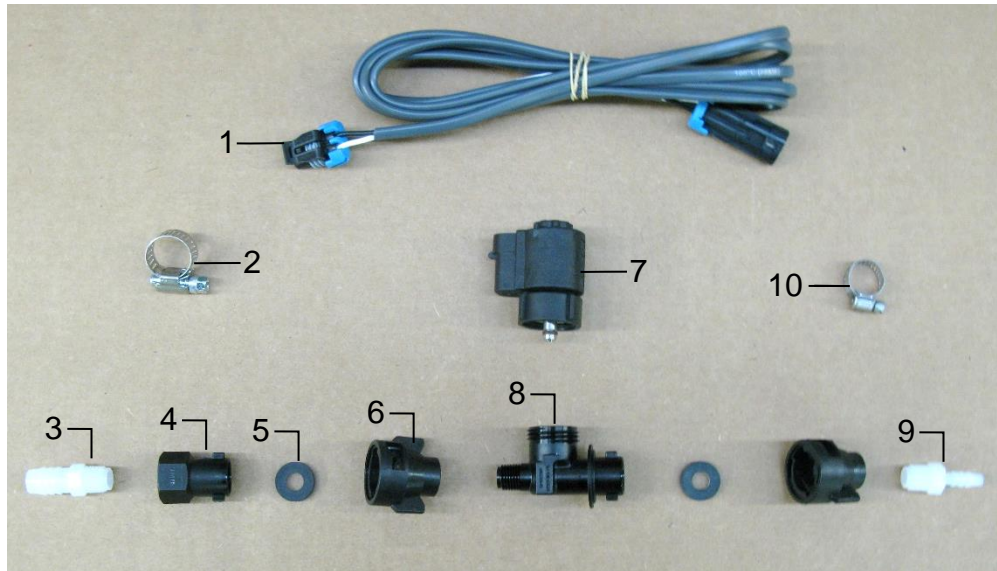
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tractor Power Harness	006-3650T	1
2	iPad Integration Control	030-6672C	1
3	Baler Power Harness (20')	006-3650B1	1
4	Control Box	006-3671RB	1
5	Dust Plug Kit	006-5651Plug	1
6	Key Switch Harness	006-5650K	1
NP	USB Cable	006-6672USBC	1
Complete Assembly		030-363CPA	

End of Bale Sensor Kit A



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	End of Bale Sensor	006-7400	1
2	EOB Extension	006-7400EXT	1
3	End of Bale Bracket	001-4648RB	1
Complete Assembly		EOB-RB-A	

300 Solenoid Package



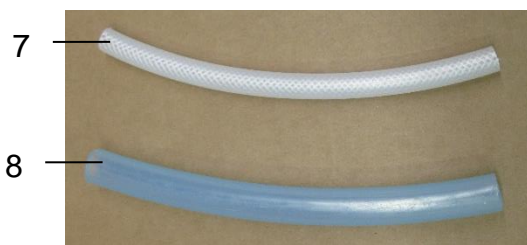
Solenoid Package A (349U /349UP Applicator)

Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Solenoid Harness (5')	006-3650-S1	1	6	1/4" Female Disconnect	004-1207H	2
2	#6 Hose Clamp	003-9003	1	7	Solenoid	002-2203F	1
3	1/4" x 1/2" Straight Fiting	003-A1412	1	8	Solenoid Valve Body	004-1207VF	1
4	1/4" Female Connector	004-1207G	1	9	1/4" x 1/4" Straight Fitting	003-A1414	1
5	Rubber Washer	004-1207W	2	10	Mini Hose Clamp	003-9002	1
Complete Assembly						SOL-3SP-A	

Solenoid Package B (349P Applicator)

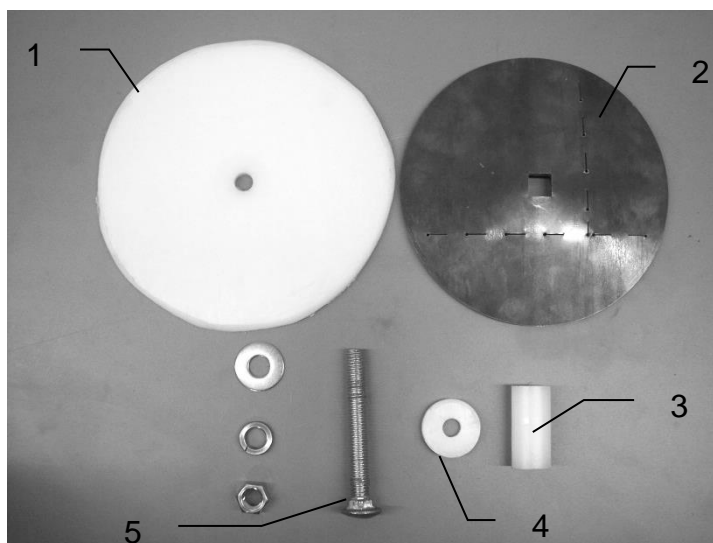
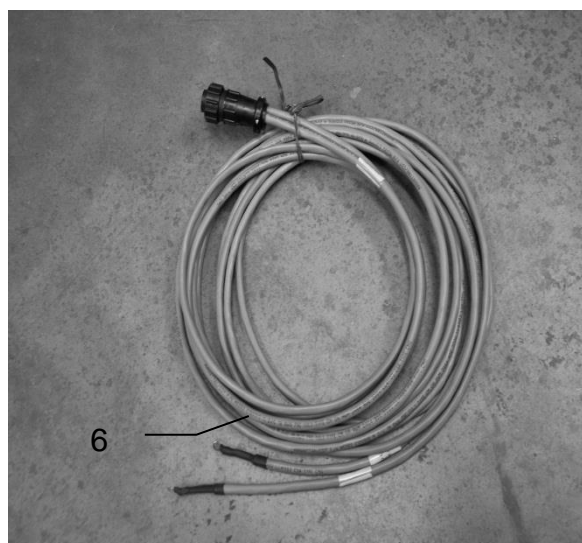
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Solenoid Harness (10')	006-3650-S2	1	6	1/4" Female Disconnect	004-1207H	2
2	#6 Hose Clamp	003-9003	1	7	Solenoid	002-2203F	1
3	1/4" x 1/2" Straight Fiting	003-A1412	1	8	Solenoid Valve Body	004-1207VF	1
4	1/4" Female Connector	004-1207G	1	9	1/4" x 1/4" Straight Fitting	003-A1414	1
5	Rubber Washer	004-1207W	2	10	Mini Hose Clamp	003-9002	1
Complete Assembly						SOL-3SP-B	

Hoses



Ref	Description	Part #	Qty
7	1/2" Hose (Tank to Solenoid)	002-9001	15ft
8	1/4" Hose (Solenoid to Tips)	002-9016	6ft

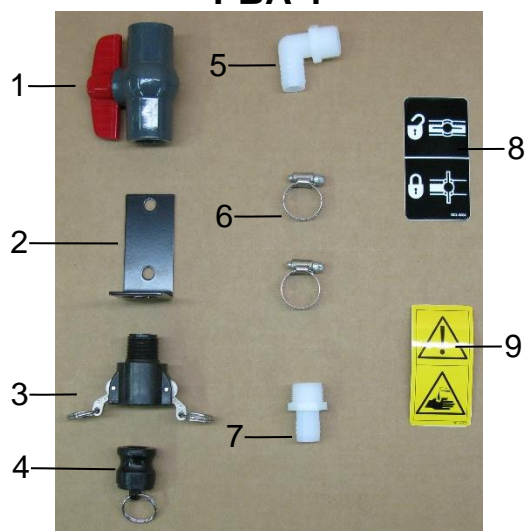
Moisture Sensors



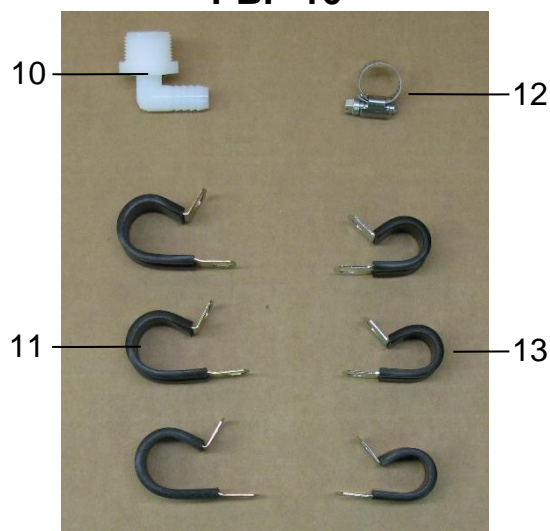
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Plastic Pad	006-4641F	2	4	Plastic Isolator	006-4641I	2
2	Moisture Disc	006-4641H	2	5	1/2X4 1/2" Carriage Bolt		2
3	Plastic Bushing	006-4641G	2	6	Moisture Cable	006-4640G2	1
Moisture Pad Assembly (Ref 1-5)						030-4643	2
Complete Assembly (Ref 1-6)						MSH-RB-A	

Parts Bag Packages

PBA-1

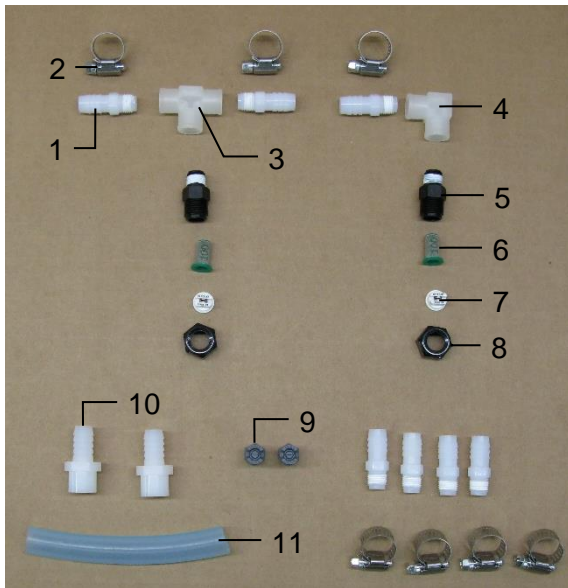


PBP-16



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	3/4" Ball Valve	002-2200	1	9	Chemical Hazard Decal	DCL-8001	1
2	Valve Holder	001-6702H	1	10	3/4" x 1/2" Elbow	003-EL3412	1
3	Female Coupler	002-2204A	1	11	3/4" Jiffy Clip	008-9010	3
4	Male Shut-Off Plug	002-2205G	1	12	#6 Hose Clamp	003-9003	1
5	3/4" x 3/4" Elbow	003-EL3434	1	13	Small Jiffy Clip	008-9009	3
6	#10 Hose Clamp	003-9004	2	Complete Drain Fill Kit			030-0439DFK
7	3/4" x 3/4" Straight Fitng	003-A3434	1				
8	Valve Decal	DCL-8004	1				

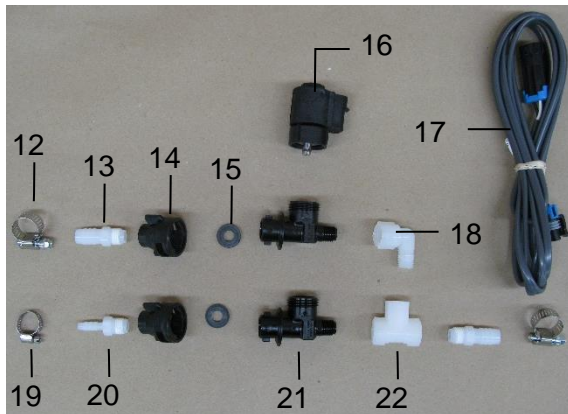
Optional High Output Kit (300RBHTK)



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	1/4" x 1/2" Straight Fitting	003-A1412	7
2	#6 Hose Clamp	003-9003	7
3	1/4" Tee	003-TT14SQ	1
4	1/4" Sq Elbow	003-SE14F	1
5	Nozzle Body	004-4722	2
6	Tip Screens	004-1203-100	2
7	High Output Tip – White	004-XR11008VS	2
8	Nozzle Body Cap	004-4723	2
9	High Output Tip – Grey	004-T8008-PT	2
10	1/4" x 1/2" Sq Fitting	003-A1412F	2
11	1/2" Hose	002-9001	6ft

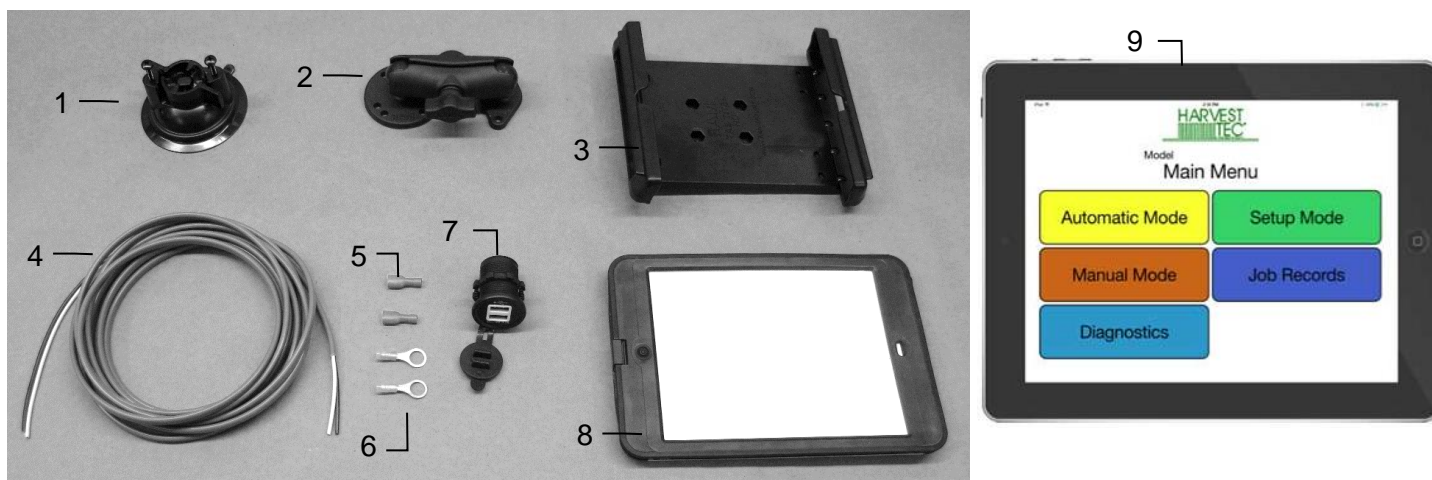
* Tip color subject to change

High Output Solenoid (Included with 300RBHTK Kit)



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
12	#6 Hose Clamp	003-9003	2
13	1/4" x 1/2" Straight Fitting	003-A1412	2
14	Female Quick Coupler	004-1207H	2
15	Rubber Washer	004-1207W	1
16	Solenoid	002-2203F	1
17	Solenoid Harness (10')	006-3650-S2	1
18	1/4" Street Elbow	003-SE14	1
19	Mini Hose Clamp	003-9002	1
20	1/4" x 1/4" Straight Fitting	003-A1414	1
21	Solenoid Check Valve	004-1207VF	2
22	1/4" Tee	003-TT14	1

Optional iPad Display Kit (030-4670DK)



Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Suction cup mount	001-2012SCM	1	7	iPad Mini Charger 12V	001-2012P	1
2	Ram mount	001-2012H	1	8	iPad Mini 4 case	001-2012C4	1
3	iPad Mini spring load cradle (Mini 4)	001-2012SLC	1	9	iPad Mini 4	006-4670IP	1
4	16 gauge power wire	006-4723P	1	NP	4 amp fuse	Hardware	1
5	Female spade connector	Hardware	2				
6	Eye loop connector	Hardware	2				
					iPad Mini Display Kit	030-4670DK	
						(Includes All Parts)	
					Mounting Kit Only	030-2014MK	
						(Parts 1-8 only)	

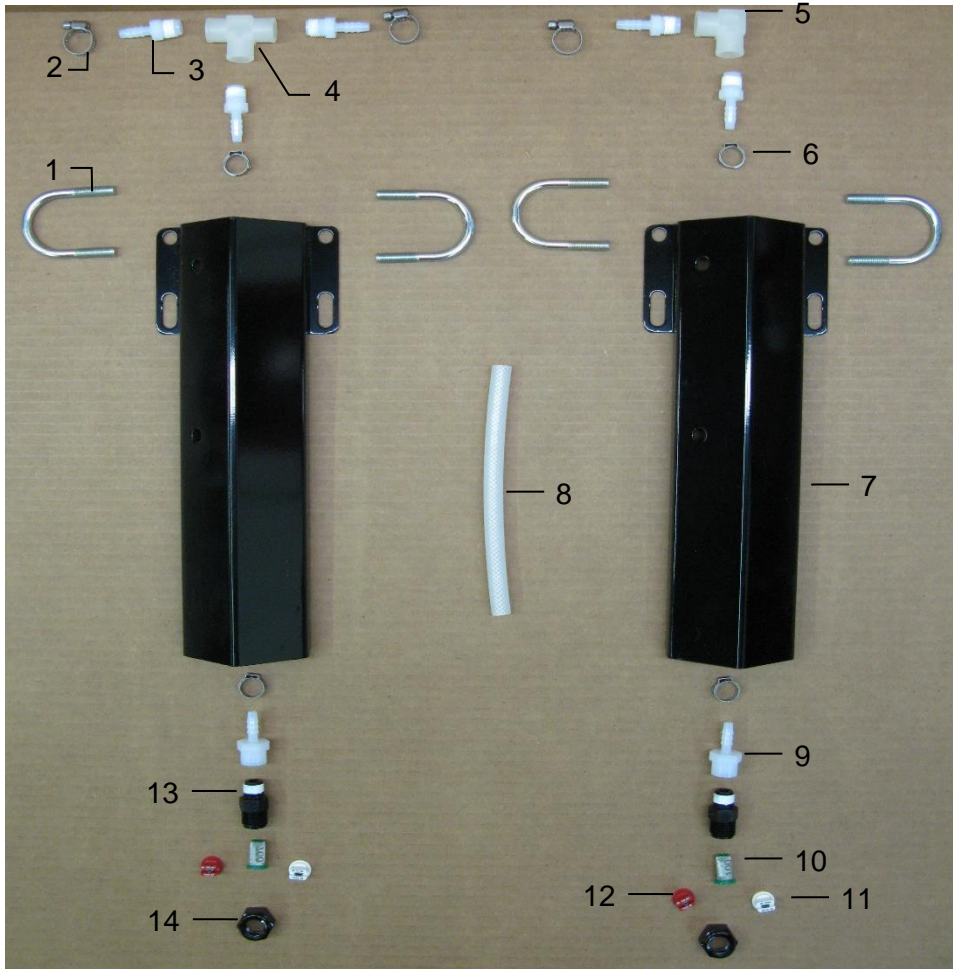
Installation Instructions

1. Identify 12V power source for wires to connect.
2. Eye loops included if wiring directly to the battery is desired.
3. Test for key power source if preferred to have power to the USB shut off with the key.
4. Once power source is identified, cut wires to desired length.
5. Crimp the two supplied quick connectors onto the white and black wire.
6. Remove the round locking plastic nut from USB plug before connecting the wires. Black (+) White (-).
7. The wires will then be hooked to the designated terminals on the bottom of the USB plug
8. Drill a 1 1/8" hole in the preferred mounting location. Be sure to clean any sharp edges after drilling.
9. Feed the wires through the mounting hole.
10. 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.
11. Connect the wires to the identified power source if easier to do so before tightening the plug into place.
12. Tighten plug using either the round plastic nut or mounting plate and two screws, both options supplied.
13. 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.

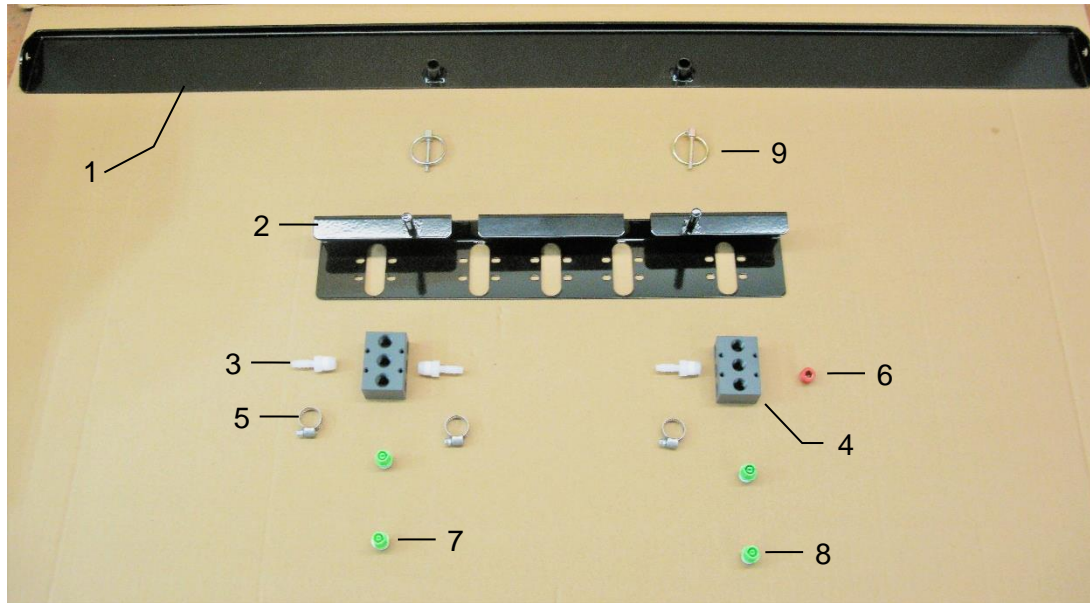
*iPad mini is a trademark of Apple Inc., registered in the U.S. and other countries.

Spray Shield- 347U/347UP Installation Kit



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	U bolt	001-4714UBS	4	11	Tip – White	004-XR11008VS	2
2	Hose clamp	003-9002	4	12	Tip – Red	004-XR11004VS	2
3	1/4" MPT x 1/4" HB	003-A1414	5	13	Nozzle Body	004-4722	2
4	1/4" FPT Sq. Tee	003-TT14SQ	1	14	Nozzle Cap	004-4723	2
5	1/4" Female St Elbow	003-SE14F	1	NP	477 Jiffy Clip	008-9014	2
6	Oetiker Clamp	003-9008	4				
7	Nozzle Holder	001-4714J	2		* Tip color subject to change		
8	Hose	002-9016	3 ft				
9	1/4" x 1/4" Fitting	003-A1414F	2		Complete Assembly	030-4714J-SO	
10	Tip Strainer	004-1203-100	2				

347P-SO Installation Kit



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray Sheild Holder	001-4435NCP	1	6	Plug Allen SS	003-F14A	1
2	Spray Sheild	001-4435NSX	1	7	Tip – Green	004-T8004-PT	2
3	1/4" x 1/4" Straight Fitting	003-A1414	3	8	Tip - Green	004-T8008-PT	2
4	Spray Shield Manifold	001-4435NSB	2	9	Pin Lynch 3/16	008-4576	2
5	Mini Hose Clamp	003-9002	3				
* Tip color subject to change				Complete Assembly		030-0347P-SO	

Notes

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