Installation Manual

Model 338K
25 Gallon Automatic Preservative Applicator

HARVEST TEC

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

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: 338K-21-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
                                      ENGLAND

Harvest Tec 338K Table of Contents

Introduction

Congratulations and thank you for purchasing a Harvest Tec Model 338K 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 inaccurate readings from the flow meter and damage to all parts. Resulting in the warranty being void. A parts break down for the applicator is located in the back of the manual.

*Made for iPad® running the current iOS operating system

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

300 Series Applicators with serial number before THS07000 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)

Tools Needed

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

Installation of Applicator

Installation of Mounting Brackets, Tank, and Drain / Fill Line

Locate the frame mount stiffener brackets (001-4704KS) and the left and right mounting brackets (001-4704KE & 001-4704KF) as seen in figure 1. Fasten one 001-4704KS to each the left and right mounting brackets at point A using two 3/8" x 1 1/4" bolts for each stiffener bracket.

001-4704KE
001-4704KF
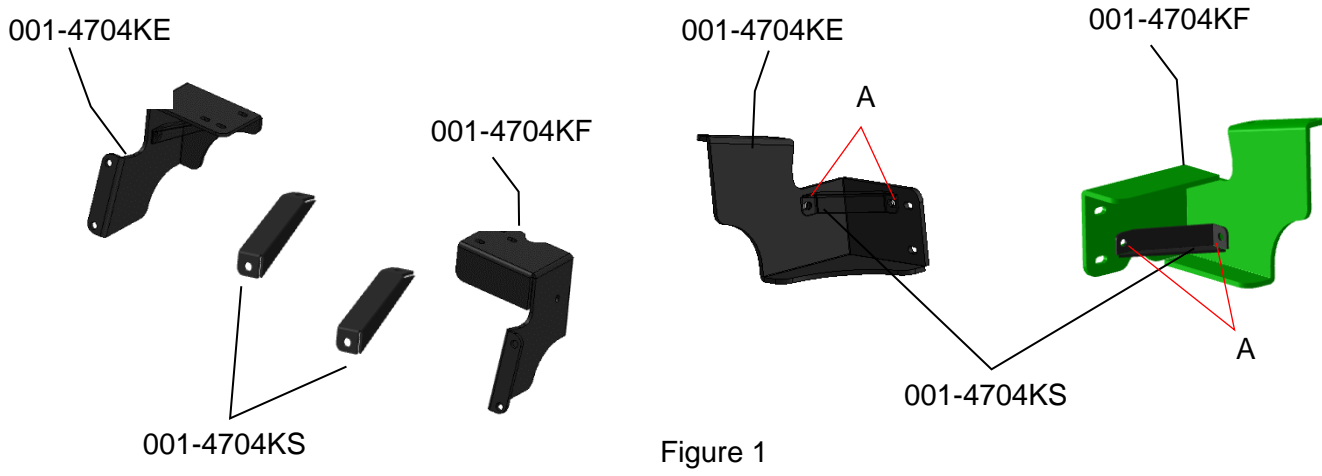001-4704KS
001-4704KE
001-4704KF
A
001-4704KS
A

Figure 1

Secure the left and right mounting brackets (001-4704KE and 001-4704KF) to the baler frame at point B in figure 2 using the existing six bolts and nuts that bolt the tongue to the baler frame. Tighten all hardware.
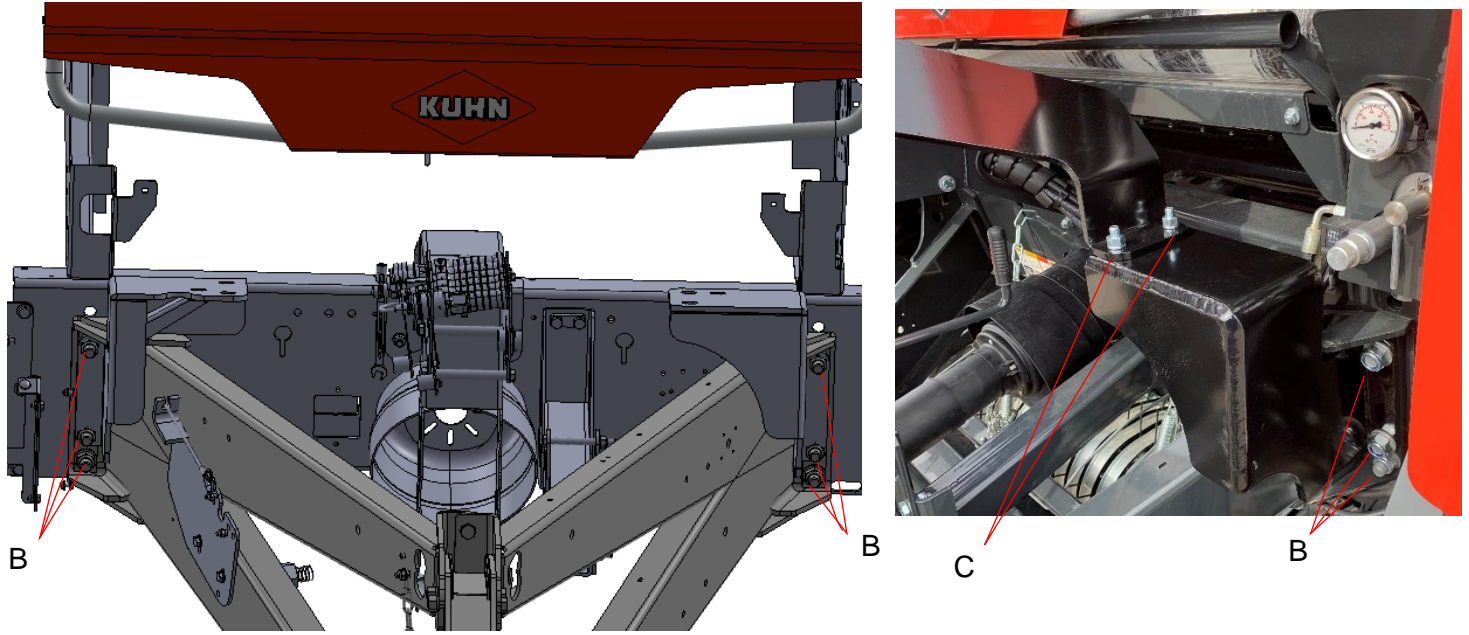

B
B
C
B

Figure 2

4

Installation of Mounting Brackets, Tank, and Drain / Fill Line (continued)

Locate the tank saddle U-bracket (001-4704KB) and line it up over the baler tongue so it matches up with the tank saddle legs (001-4704KE & 001-4704KF) at point C and D as shown in figure 3. Fasten 001-4704KB to the left saddle leg (001-4704KE) at point C using two 1/2" x 2" bolts, flats, locks, and nuts. Do the same with 001-4704KB to the right saddle leg (001-4704KF) at point D using two 1/2" x 2" bolts, flats, locks, and nuts.
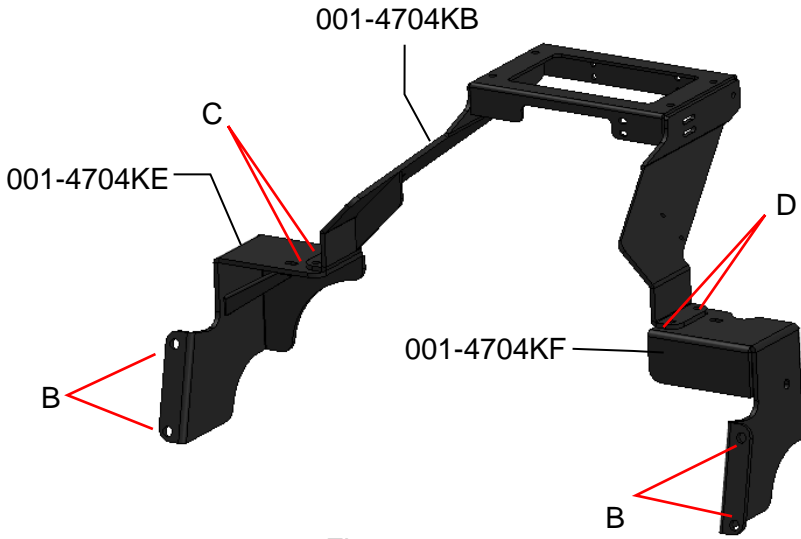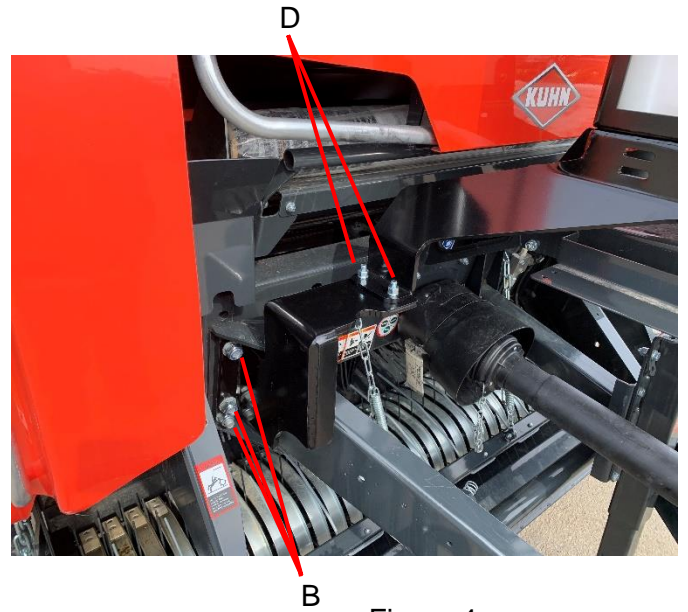
Figure 3

Figure 4

Locate the tank bracket (001-4704KA) as shown in figure 5. Fasten 001-4704KA to the tank saddle U-Bracket (001-4704KB) with four 1/2" x 1 ½" bolts, locks, flats, and nuts at the four corners at the bottom of 001-4704KA as shown at point E. Tank may need to be removed from the tank bracket (001-4704KA) to do this. The bolt heads and flat washers should be on the top. Locate the toolbox bracket (001-4704KJ) as shown in figure 6. Fasten 001-4704KJ to 001-4704KB with four 3/8" x 1 1/4" bolts, locks, flats, and nuts as shown at point F.
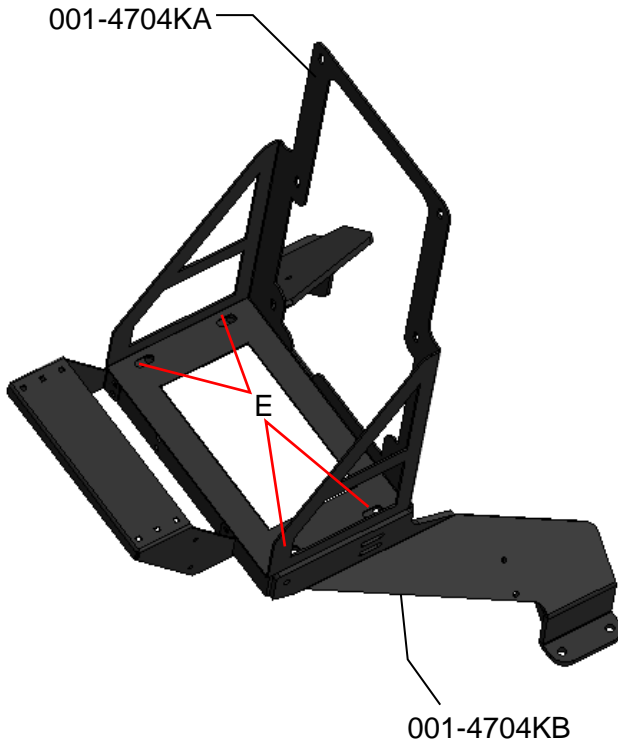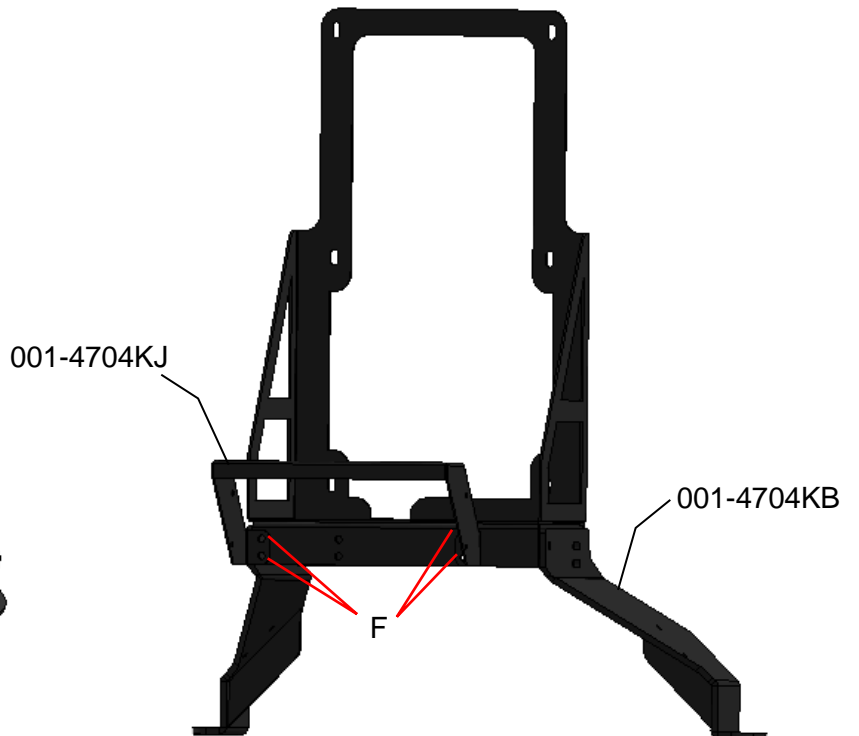
Figure 5

Figure 6

Installation of Mounting Brackets, Tank, and Drain / Fill Line (continued)

If your baler has a sidewind jack, complete the next steps. If your baler does not have a sidewind jack, skip to the tank installation on page 7.

Locate the jack bracket assembly (001-4704KM) and fasten it to the existing jack mounted on the baler shown at point G in figure 7 using two 1/2" x 4½" bolts, flats, locks, and nuts. Locate the support bracket (001-4704KG) and fasten it to the top hole on the jack bracket assembly (001-4704KM) shown at point H in figure 8 using a ½" x 1½" bolt, flat, lock and nut. You may have to cut off the end of the support bracket (001-4704KG) at the notch to fit the baler.
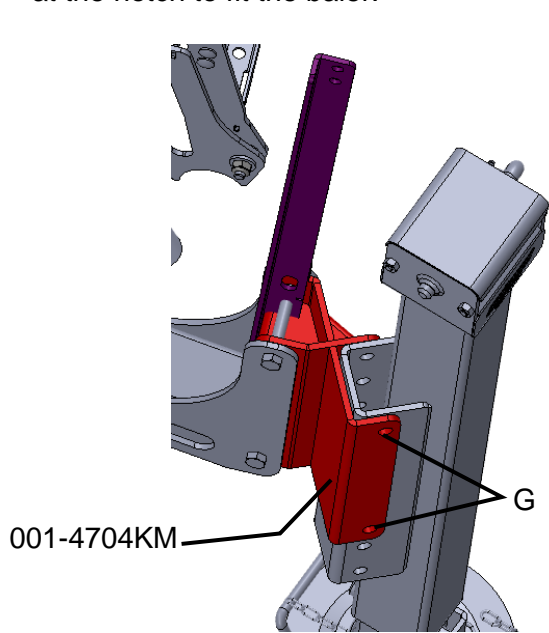

001-4704KM

G
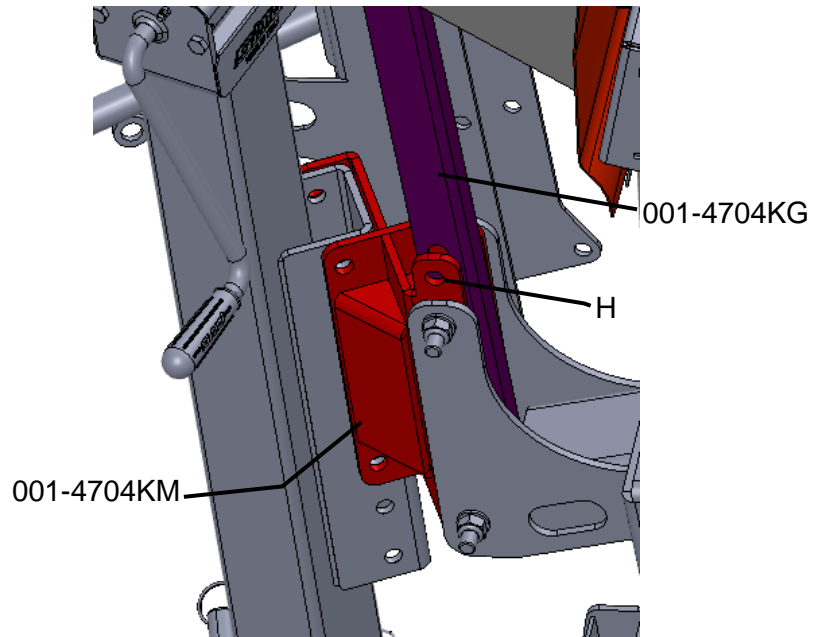
001-4704KM

Figure 7

001-4704KG

H

001-4704KM

Figure 8

Locate the support bracket (001-4704KG) and fasten it to the inside of the U-Bracket (001-4704KB) shown at point I in Figure 9 below using two 3/8" x 1¼" bolts, flats, locks, and nuts.
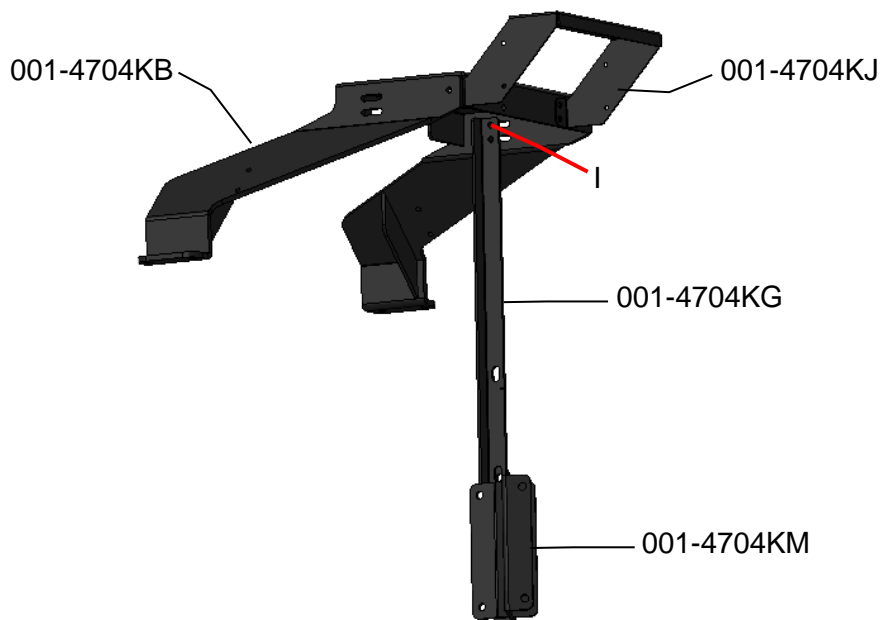

001-4704KB

001-4704KJ

I

001-4704KG

001-4704KM

Figure 9

Installation of Mounting Brackets, Tank, and Drain / Fill Line (continued)

Note – removal of Kuhn factory tool box bracket is required. Remove and discard bracket. Relocate tool box to 001-4704KJ bracket. Locate the mounting bracket (001-4704KR) and fasten it to the outside of the U-Bracket (001-4704KB) shown at point J in figure 10 using 3/8" x 1 ¼" bolts, locks, flats, and nuts. Drill a 3/8" hole in the baler tongue and fasten 001-4704KR to the baler tongue using a 3/8" x 1 ¼" bolt, lock, flat, and nut.
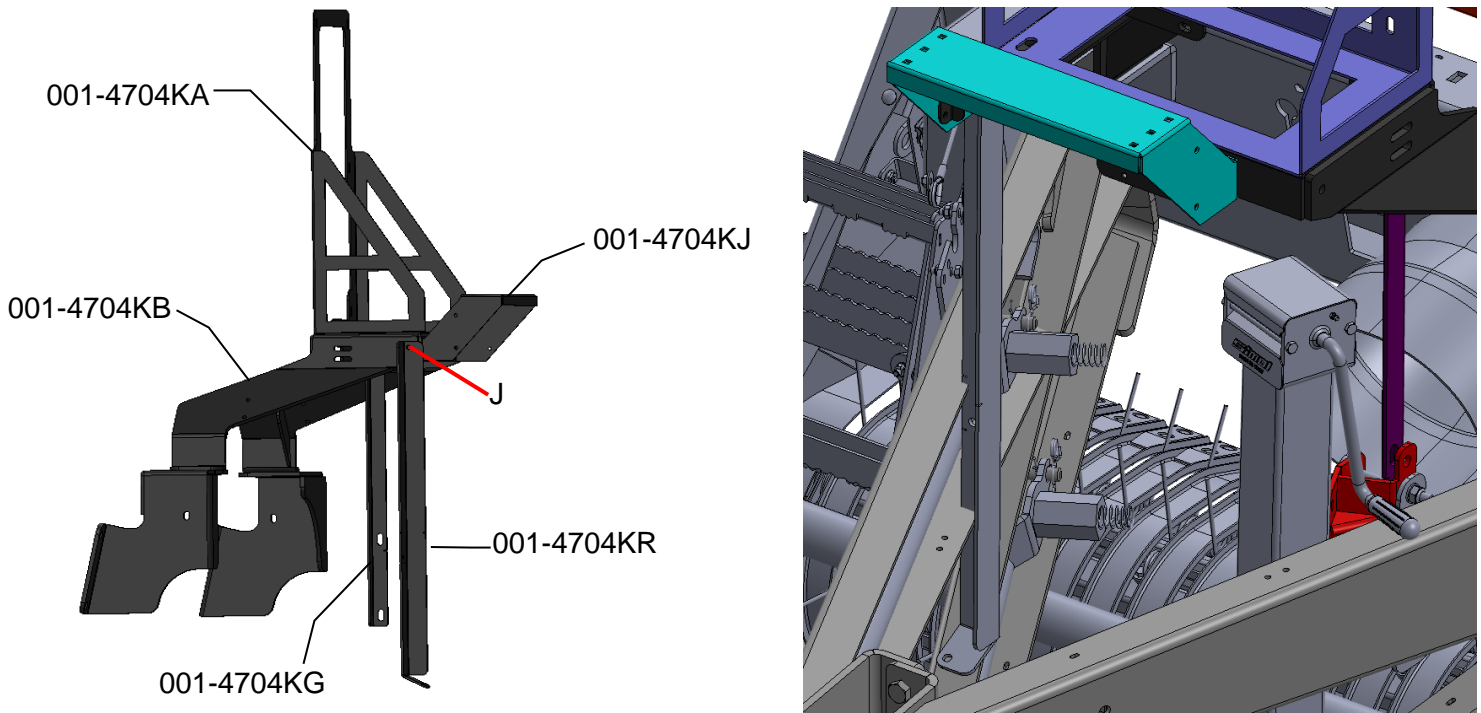

Figure 10

Locate the tank (005-4705T) as shown in figure 11 and fasten it to the tank bracket (001-4704KA) using six 5/16" x ¾" bolts, internal tooth lock washers, and flats. Tighten all hardware.

Figure 11

Installation of Mounting Brackets, Tank, and Drain / Fill Line (continued)

Locate the drain/fill kit and drill two 9/32" holes in the U-bracket (001-4704KB) and fasten the drain/fill kit with the supplied hardware in the drain/fill kit (5/16" self-tapping bolts).
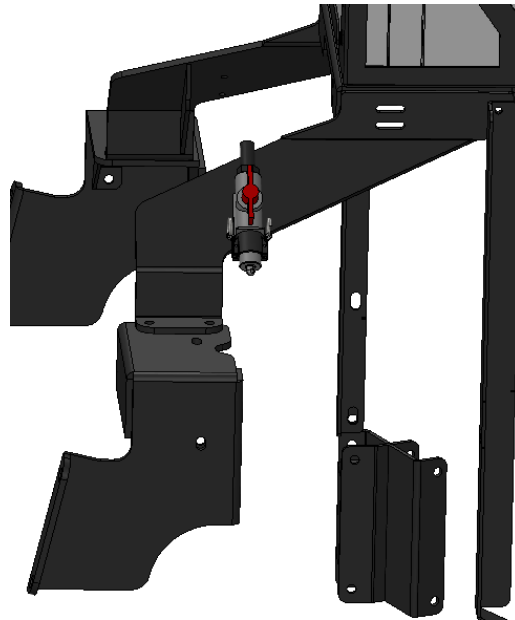
Figure 12

Mount Pump Plate Assembly

Locate parts bag 8, pump assembly (PMP-3636P) and the two mounting brackets (001-4704KK). Mount pump assembly to the pump plate (001-4648X) as shown in figure 13. Fasten the mounting brackets (001-4704KK) to the U-Bracket (001-4704KB) shown at point K in figure 14 using four 3/8" x 1 ¼" bolts, locks, flats, and nuts. Use two 3/8" x 1-1/4" bolts, locks, and flat washers to mount the pump plate with pump assembly to the mounting brackets (001-4704KK) as shown in figure 14 at point L.
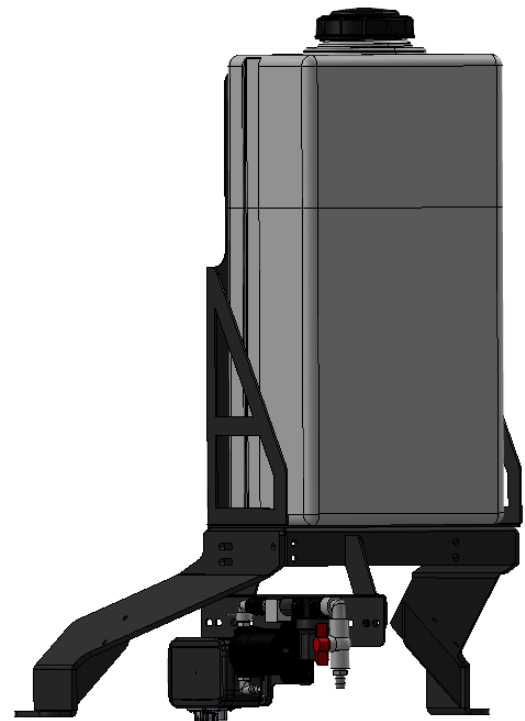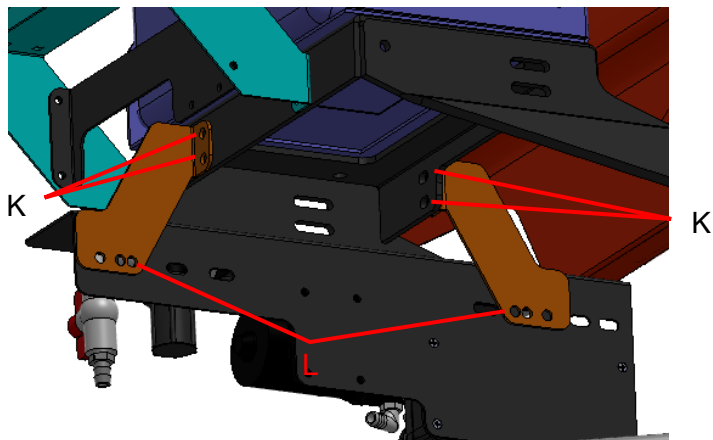
Figure 13

Figure 15

Figure 14
Placement of Spray Nozzle Assembly

Locate the spray shield holder (001-4704E2) and spray shield (001-4703GK). Center the spray shield holder over the rotor. Clamp the bracket and drill two 7/16" (14mm) holes point M on figure 16. Secure the bracket using two 3/8" x 1 1/4 bolts, locks, flats, and nuts. Tighten all hardware. Install the shield and secure using the two lynch pins (008-4576).
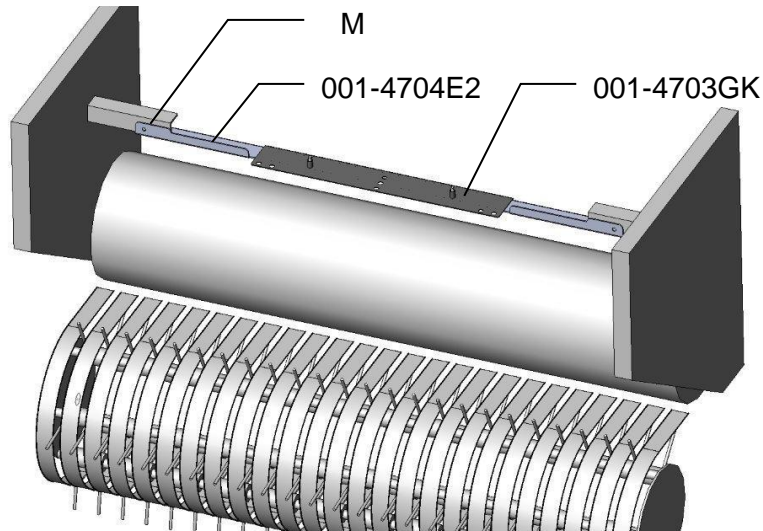

Figure 16

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 high 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 (36L-363L).

Installation of Moisture Sensing Pads

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.
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, this hole will need to be drilled out to 3/4" (19mm). If there is not a hole, 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). 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 the 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 3/4" (19mm) hole from inside of bale chamber. Secure to outside of baler by attaching to the protruding carriage bolt in the following order: small isolator (006-4641I), 1/2" D shaped washer, 1/2" lock washer, 1/2" 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.
   Note: Part 006-4641I may need to be trimmed to fit into position.
7. Route moisture harness (006-4640GX2) 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 (006-4640GX2), second 1/2" D washer, 1/2" lock washer, 1/2" nut. Tighten down and repeat for other side. Make sure none of the hardware comes in contact with the frame of the baler.
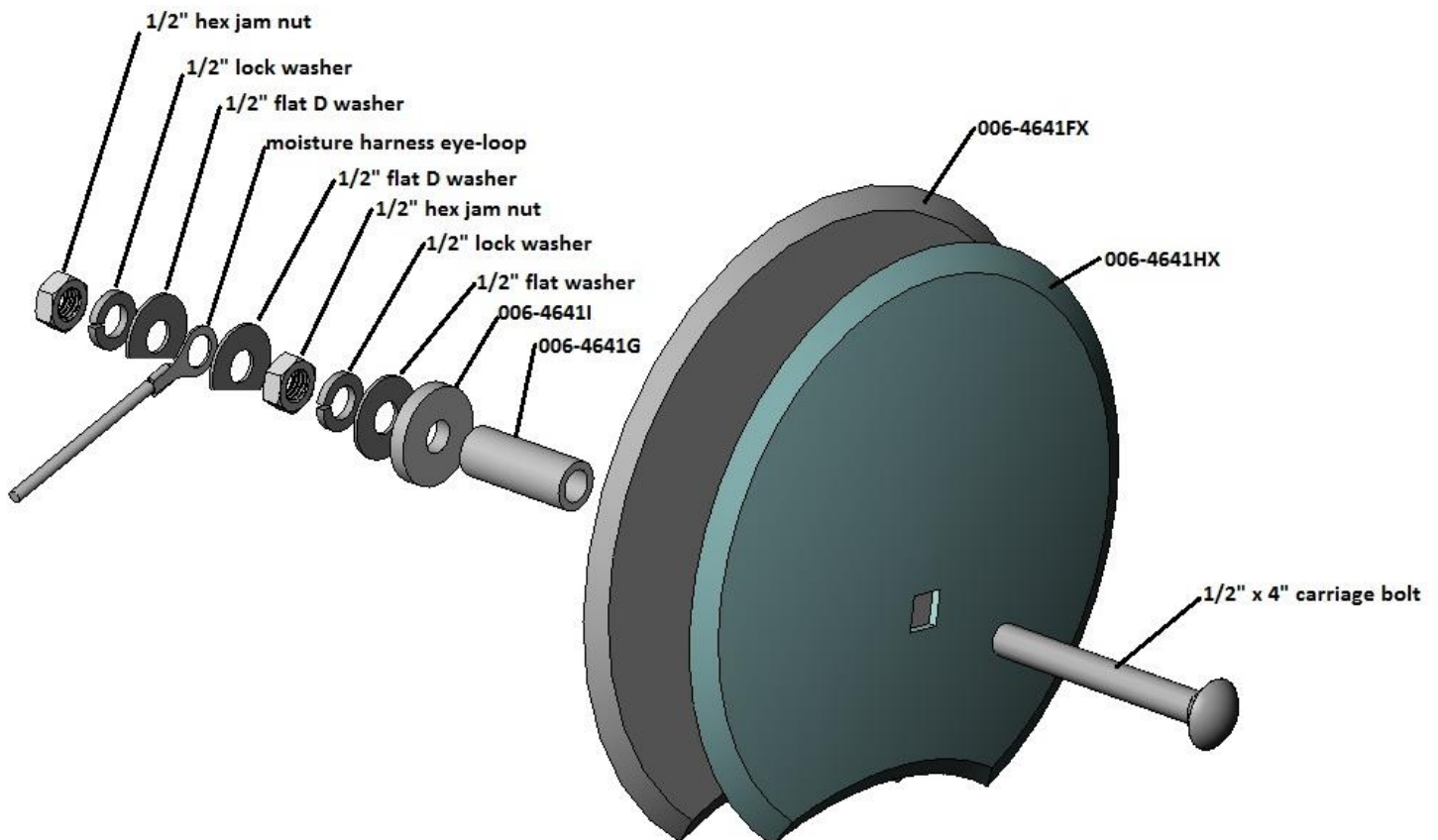
Installation of Moisture Sensing Pads (continued)
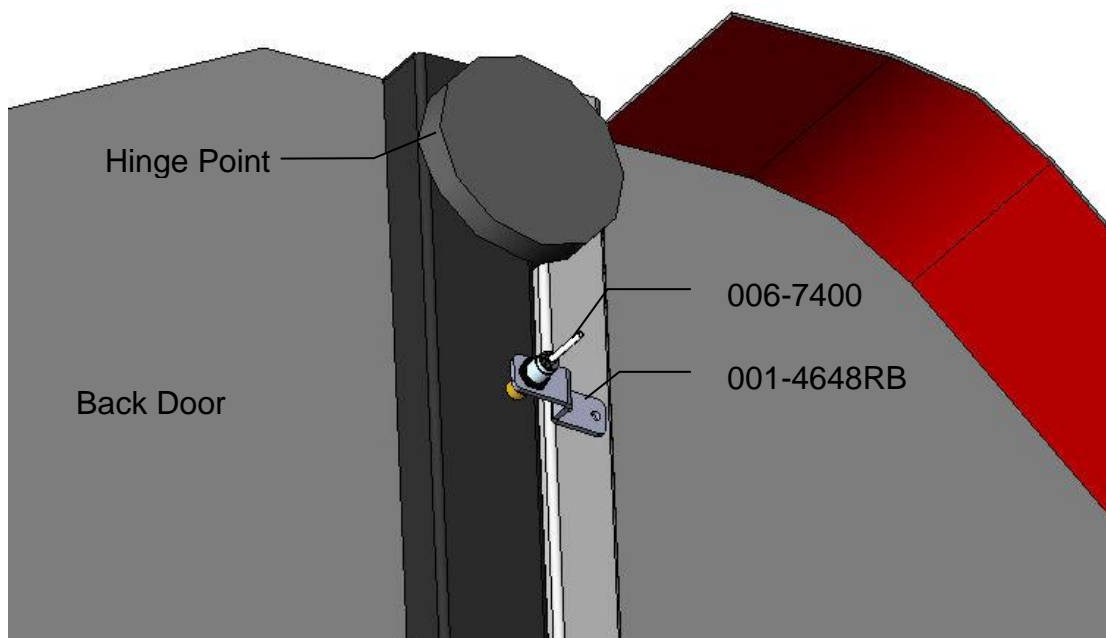

Installation of Bale Sensor

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 DCP. 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

Front of baler

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:
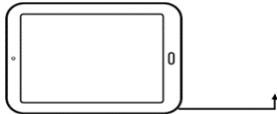
iPad Integration Control Light Signals

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)

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.
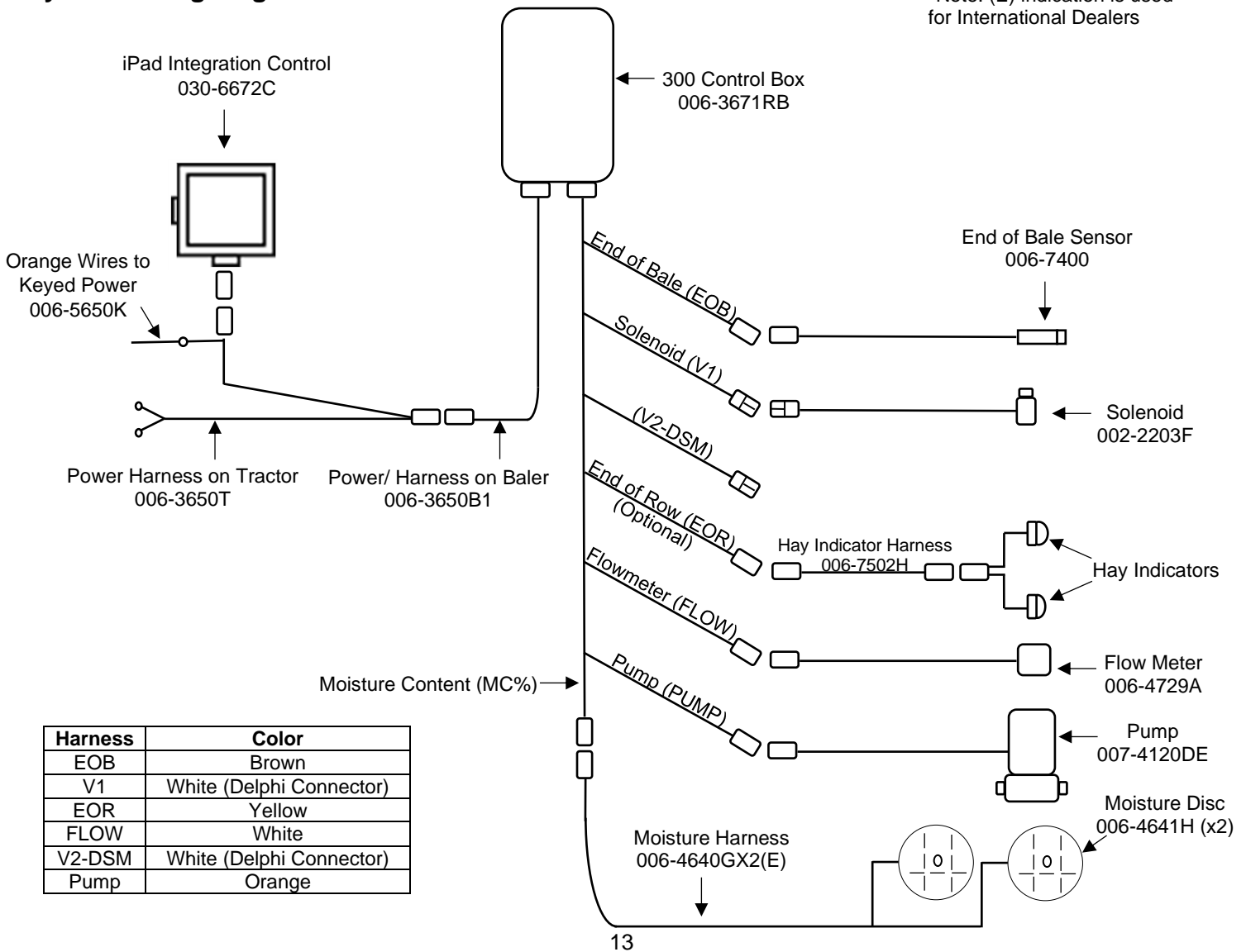
Wiring Diagram

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 Baler 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

iPad Integration Control 030-6672C

300 Control Box 006-3671RB

End of Bale (EOB)

End of Bale Sensor 006-7400

Solenoid (V1)

Solenoid 002-2203F

(V2-DSM)

End of Row (EOR) (Optional)

Orange Wires to Keyed Power 006-5650K

Hay Indicator Harness 006-7502H

Hay Indicators

Flowmeter (FLOW)

Flow Meter 006-4729A

Power Harness on Tractor 006-3650T

Power/ Harness on Baler 006-3650B1

Pump (PUMP)

Moisture Content (MC%)

Pump 007-4120DE

Moisture Disc 006-4641H (x2)

Moisture Harness 006-4640GX2(E)

Harness	Color
EOB	Brown
V1	White (Delphi Connector)
EOR	Yellow
FLOW	White
V2-DSM	White (Delphi Connector)
Pump	Orange

Pin Outs

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

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
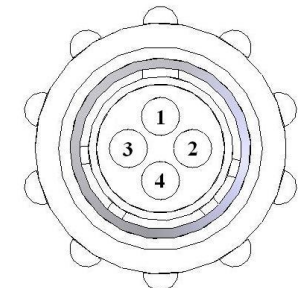Pin 10   Not Used

iPad Integration Control / BLE Receiver on 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
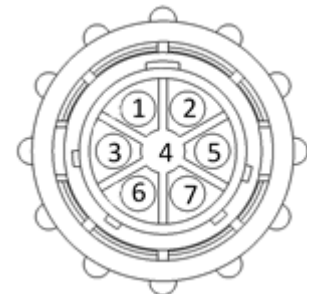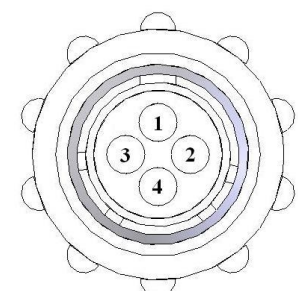
End of Bale Sensor at 300 Controller Harness
Pin 1   Brown   Sensor Power
Pin 2   Blue   Sensor Ground
Pin 3   N/A
Pin 4   Black   Signal from Sensor
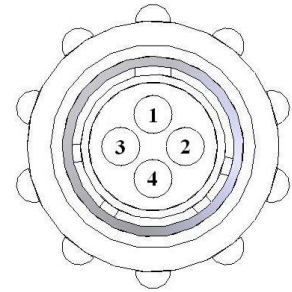
Flow Meter at 300 Controller Harness
Pin 1   White   +5-12V Power
Pin 2   Brown   Ground
Pin 3   Green   Signal
Pin 4   Not Used

Pin Outs (continued)
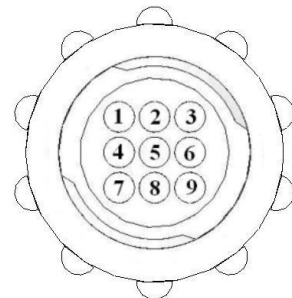
End of Row Sensor at 300 Controller Harness
Pin 1   Red/White   +12V Power
Pin 2   Black/White   Ground
Pin 3   Yellow   Signal
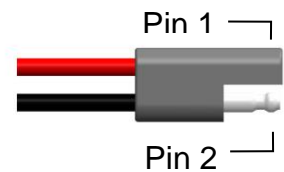Pin 4   N/A

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
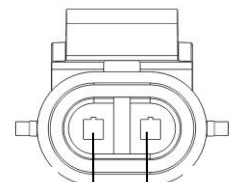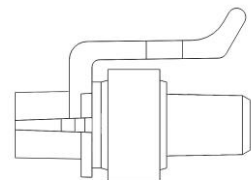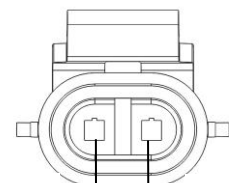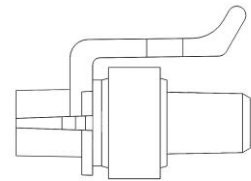Pin 9   Blue   Signal for Sensor 2

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
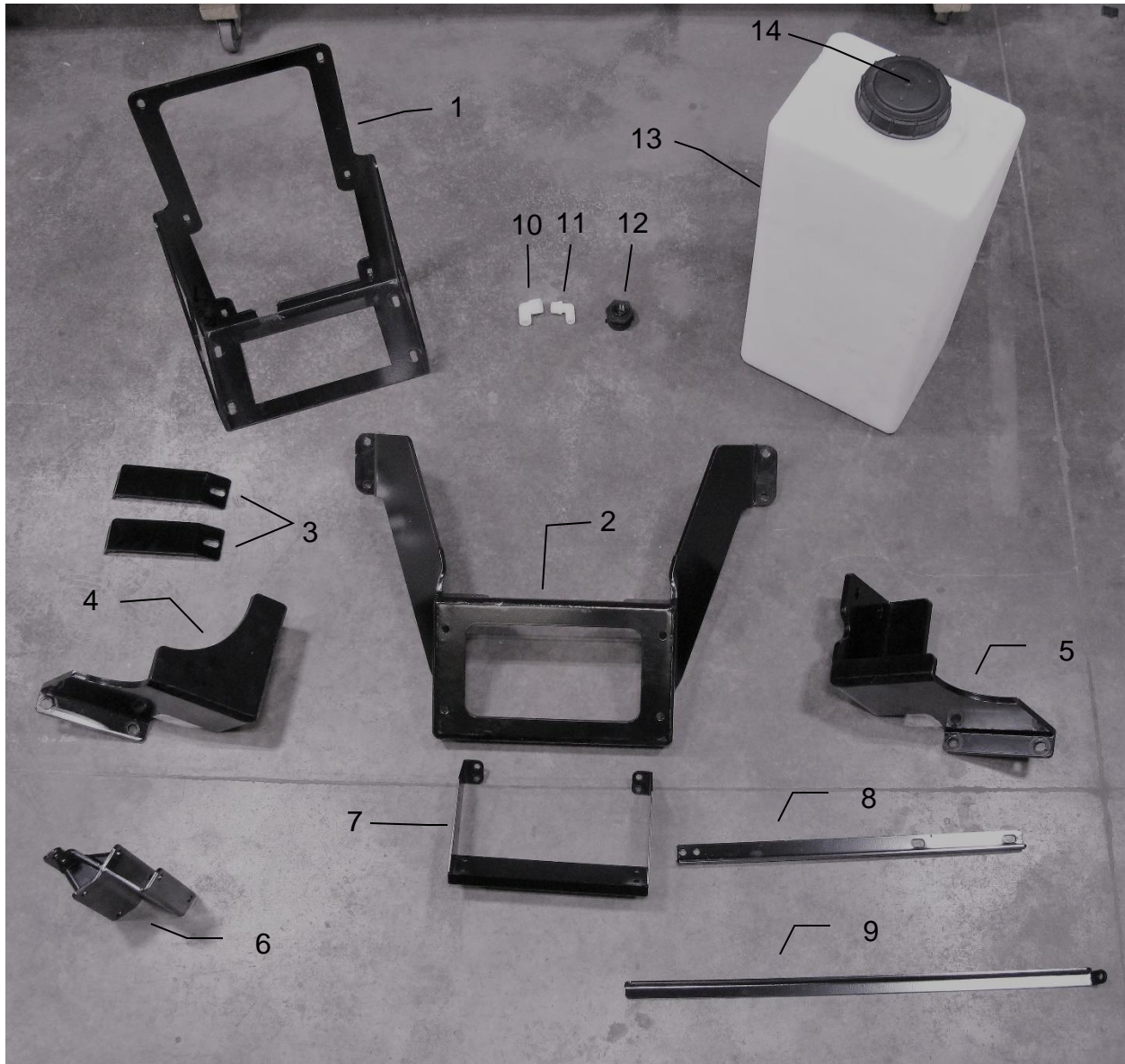Pin B   White   Solenoid Ground

V2-DSM Connection at 300 Controller Harness
Pin A   Black   Solenoid Pause
Pin B   White   Solenoid Ground

Model 338K Base Kit

Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Tank Bracket (V2)	001-4704KA	1	10	Elbow	003-EL3434	1
2	U-Bracket (V2)	001-4704KB	1	11	Street Elbow	003-SE34	1
3	Frame Mount Stiffener Bracket (V1)	001-4704KS	2	12	Tank Fitting	005-9100	2
4	Mounting Bracket LH (V2)	001-4704KE	1	13	20 Gallon Tank	005-4705T	1
5	Mounting Bracket RH (V2)	001-4704KF	1	14	Tank Cap	005-9022C	1
6	Jack Bracket Assembly (V1)	001-4704KM	1				
7	Toolbox Bracket (V2)	001-4704KJ	1				
8	Support Bracket (V1)	001-4704KG	1				
9	Tank Mount Stiffener Bracket (V1)	001-4704KR	1		Complete Kit	030-0438K-TK	

Parts Breakdown for Pump Assembly

003-RB1214PB
006-4729A
003-M1212F
003-M1212
003-RB3814PB
002-4315-100
002-4566F
003-M1212
003-SE38
003-SE12
003-M3838
007-4120DE
001-4648XL
002-2212
003-EL1212
003-EL3812

001-4704KK

001-4648X
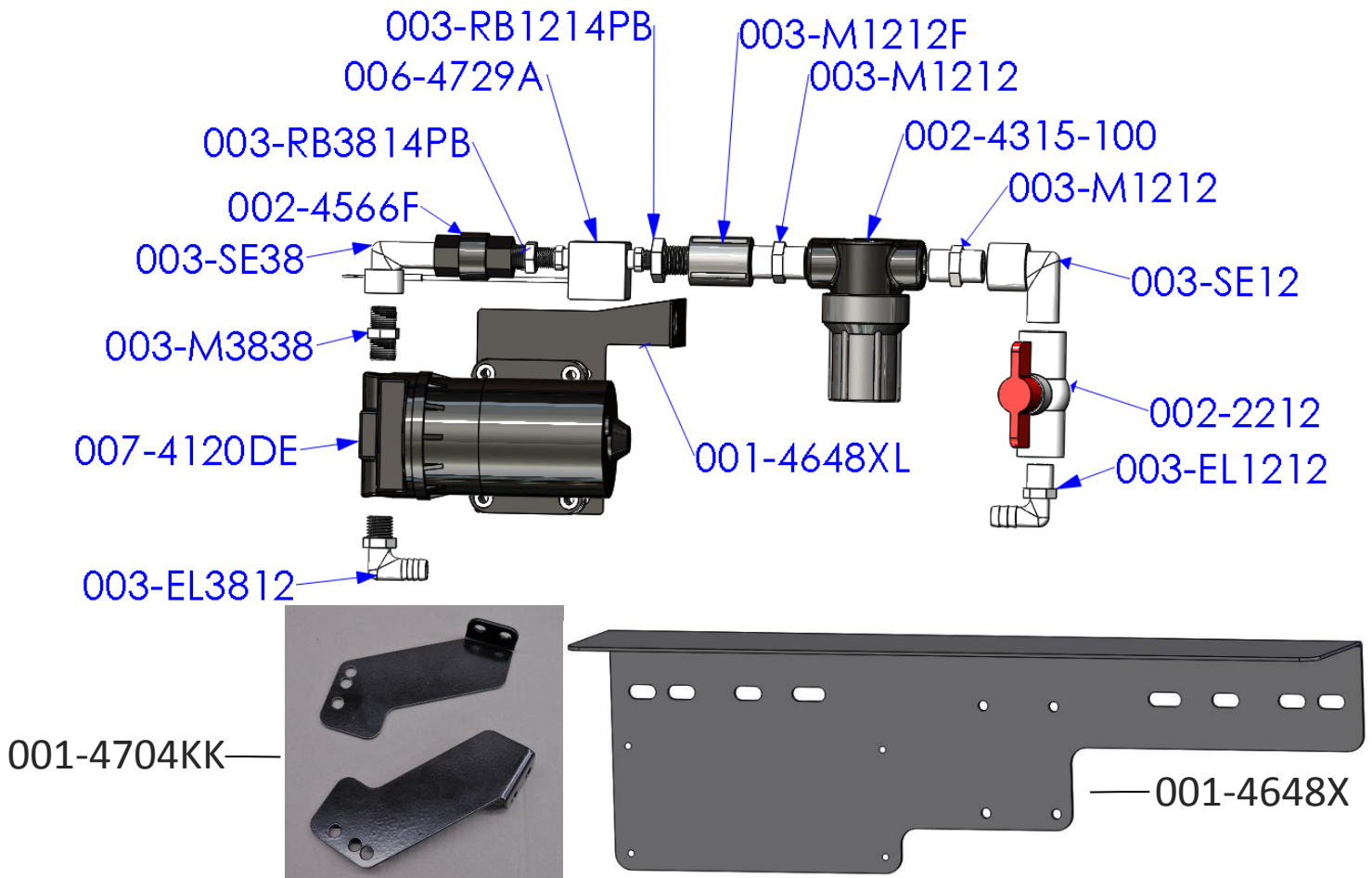
| Part#	Description	Qty	Part#	Description	Qty
003-EL3812	3/8"MPT X 1/2"HB Elbow	1	003-M1212	1/2" Union	2
007-4120DE	300 Series Pump	1	002-4315-100	1/2" Line Strainer-100 Mesh	1
003-M3838	3/8" x 3/8" Union	1	003-SE12	1/2" Street Elbow	1
003-SE38	3/8" Street Elbow	1	002-2212	1/2" Ball Valve	1
002-4566F	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	001-4704KK	Pump Brackets	2?
003-M1212F	1/2" Coupler	1	003-A1212	Not Pictured	
			003-A3812	Not Pictured	

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

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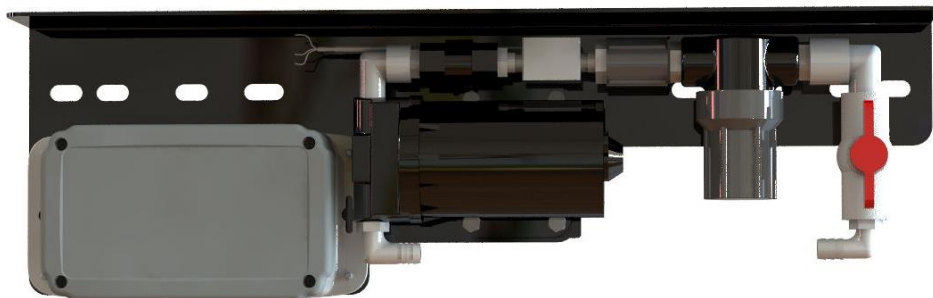
*Note: Due to alternative baler designs, elbow 003-EL3812 can be replaced by straight fitting 003-A3812. As well as elbow 003-EL1212 can be replaced by straight fitting 003-A1212. Both straight fittings are included.

300 Solenoid Packages
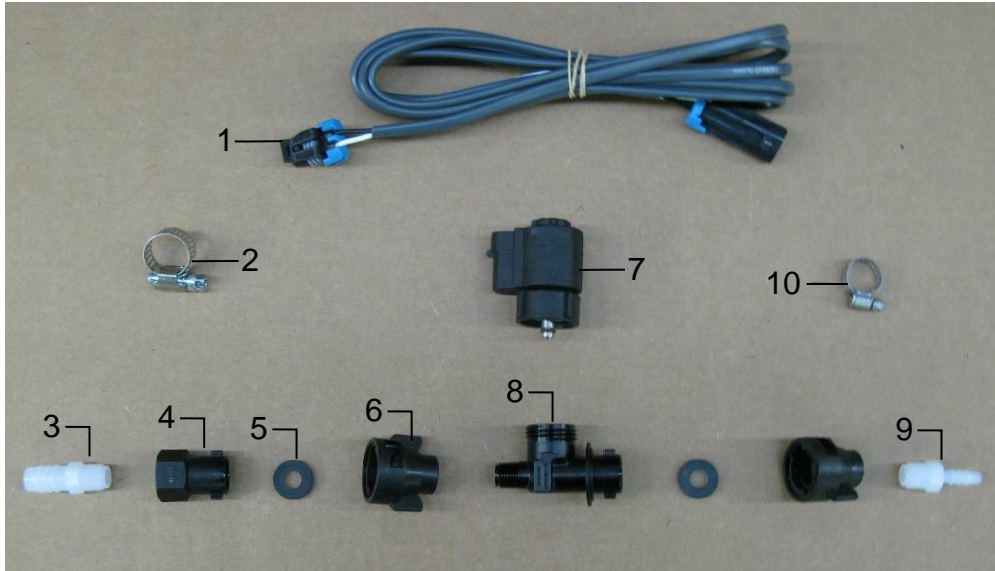
Solenoid Package A

Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Solenoid Harness (5')	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 Fittng	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	

Moisture Sensor Discs
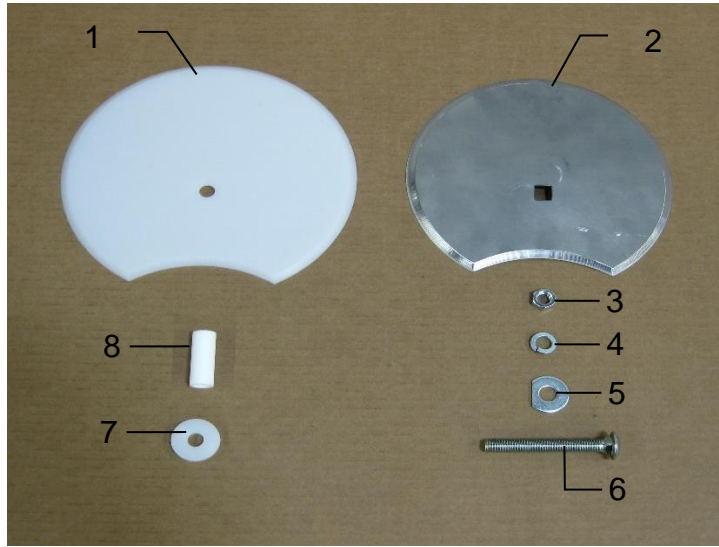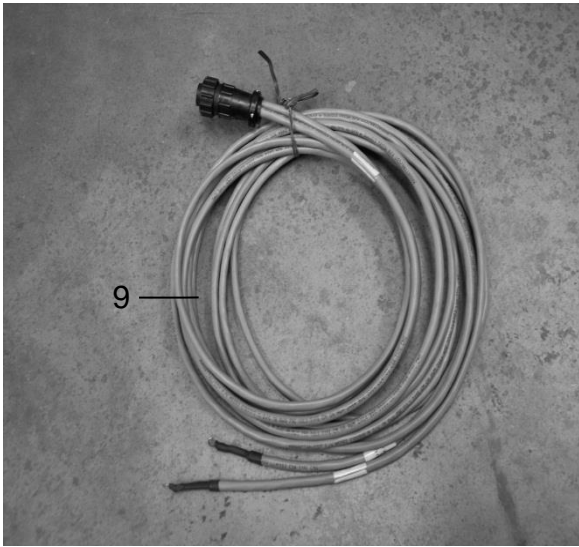
Ref	Description	Part #	Qty
1	RB Isolator	006-4641FX	2
2	RB Moisture Pad	006-4641HX	2
3	1/2" Nut	Hardware	4
4	1/2" Lock	Hardware	4
5	1/2" D Washer	Hardware	6

Ref	Description	Part #	Qty
6	1/2" x 4 1/2" Carriage Bolt	Hardware	2
7	Sensor Bushing	006-4641G	2
8	Plastic Isolator	006-4641I	2
9	Moisture Cable	006-4640GX2	1
	Moisture Assembly (Ref 1-8)	030-4643C	2
	Complete Assembly (Ref 1-9)	MSH-RB-C	

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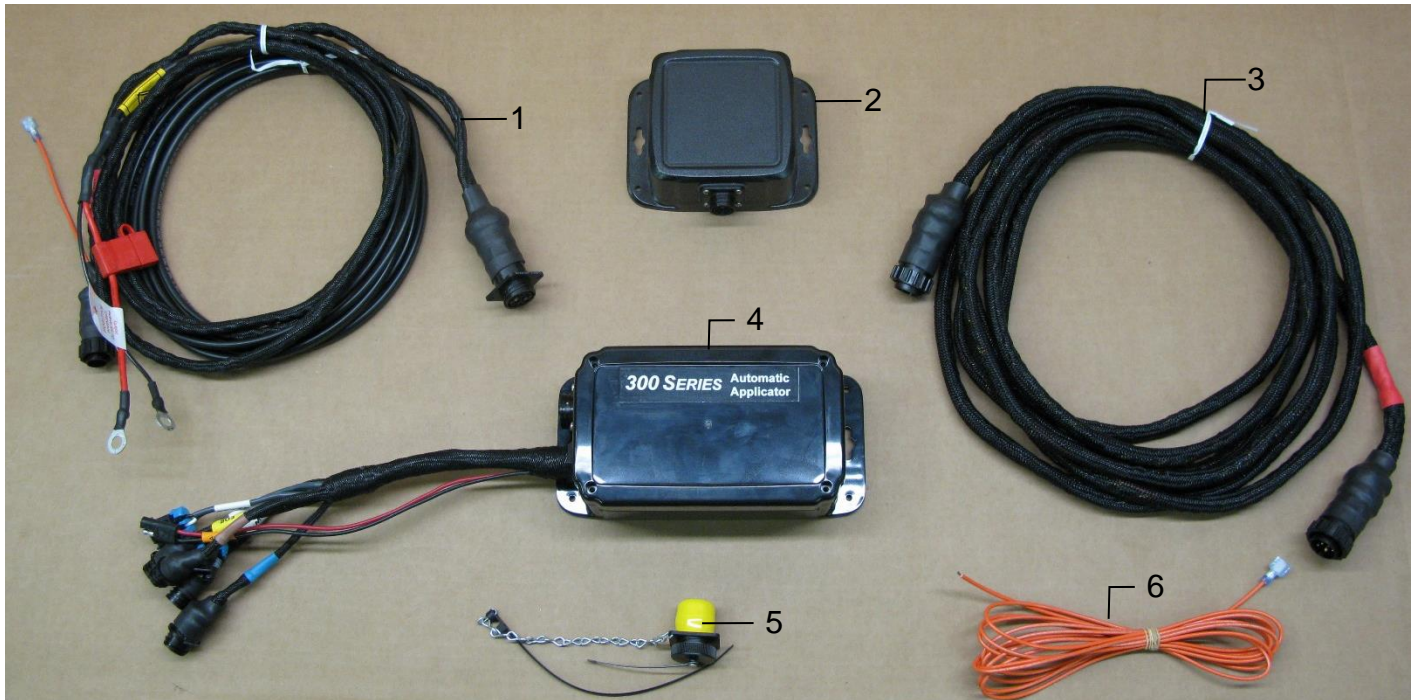
Ref	Description	Part #	Qty
1	Tractor Power Harness	006-3650T	1
2	iPad Integration Control	030-6672C	1
3	Baler Power Harness (20')	006-3650B1	1
4	Control Box	006-3671RB	1
5	Dust Plug Kit	006-5651Plug	1
6	Key Switch Harness	006-5650K	1
NP	USB Cable	006-6672USBC	1
	Complete Assembly	030-363CPA	

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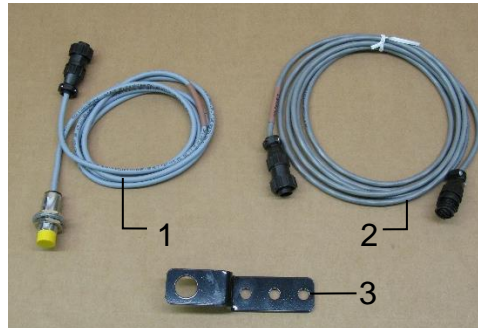
Ref	Description	Part #	Qty
1	End of Bale Sensor	006-7400	1
2	EOB Extension	006-7400EXT	1
3	End of Bale Bracket	001-4648RB	1
	Complete Assembly	EOB-RB-A	

Parts Bag Packages

PBA-1
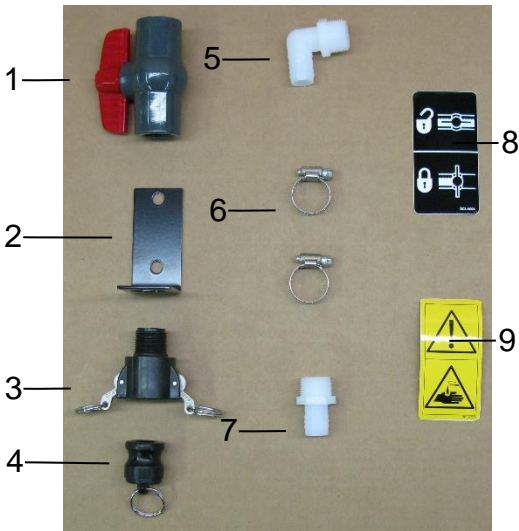
Ref	Description	Part #	Qty
1	3/4" Ball Valve	002-2200	1
2	Valve Holder	001-6702H	1
3	Female Coupler	002-2204A	1
4	Male Shut-Off Plug	002-2205G	1
5	3/4" x 3/4" Elbow	003-EL3434	1
6	#10 Hose Clamp	003-9004	2
7	3/4" x 3/4" Straight Fitting	003-A3434	1
8	Valve Decal	DCL-8004	1
9	Chemical Hazard Decal	DCL-8001	1
	Complete Drain Fill Kit	030-0493DFK	

PBP-16
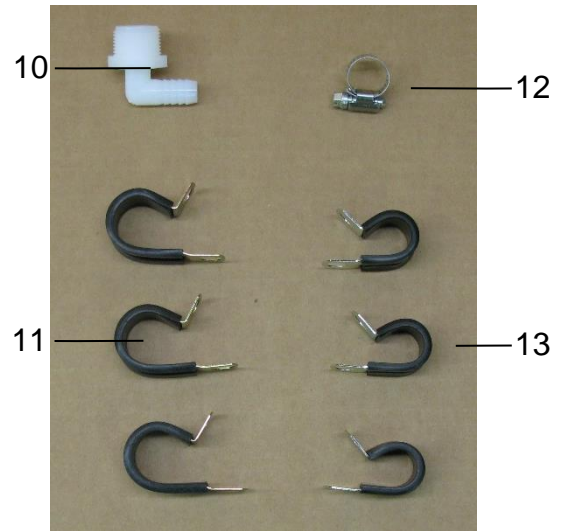
Ref	Description	Part #	Qty
10	3/4" x 1/2" Elbow	003-EL3412	1
11	3/4" Jiffy Clip	008-9010	3
12	#6 Hose Clamp	003-9003	1
13	Small Jiffy Clip	008-9009	3

Hoses
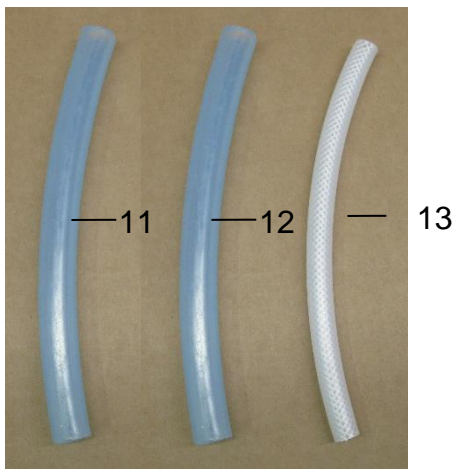
Ref	Description	Part #	Qty
11	1/2" Hose (Tank to Solenoid)	002-9001	15ft
12	3/4" Hose (Drain/Fill Line)	002-9002	6ft
13	1/4" Hose (Solenoid to Tips)	002-9016	6ft

338K-SO Installation Kit
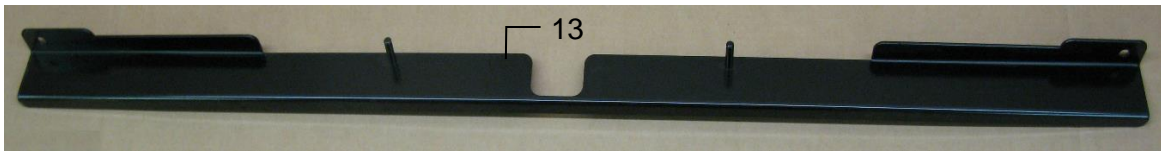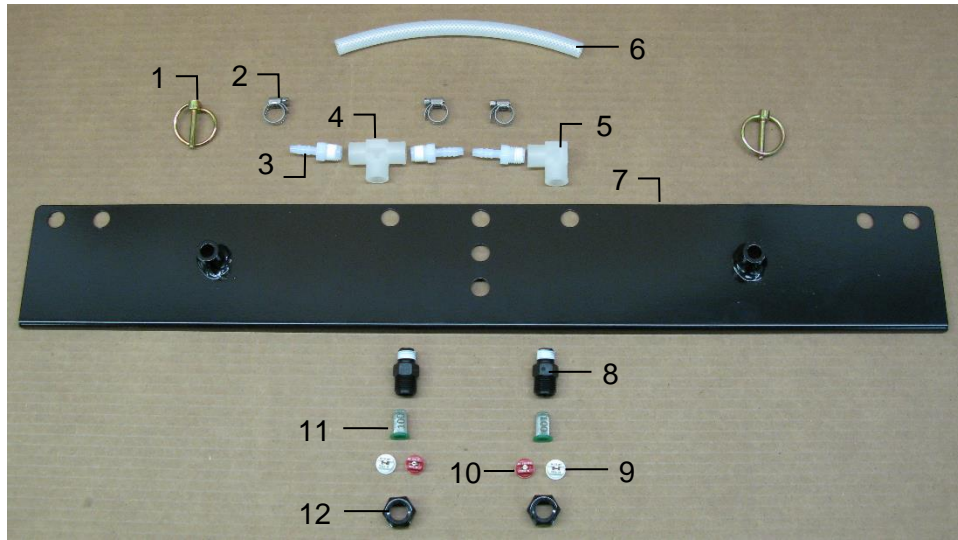
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Lynch Pin	008-4576	2	9	Tip – White	004-XR11004VS	2
2	Mini Hose Clamp	003-9002	3	10	Tip – Red	004-XR11008VS	2
3	1/4" x 1/4" Fitting	003-A1414	3	11	100 Mesh Strainer	004-1203-100	2
4	1/4" Tee Sq	003-TT14SQ	1	12	Nozzle Cap	004-4723	2
5	1/4" Female St Elbow	003-SE14F	1	13	Spray Shield Holder	001-4704E2	1
6	1/4" Braided Hose	002-9016	2ft				
7	Spray Shield	001-4703GK	1		Complete Assembly	030-0337-SO	
8	Nozzle Body	004-4722	2		* Tip color subject to change		

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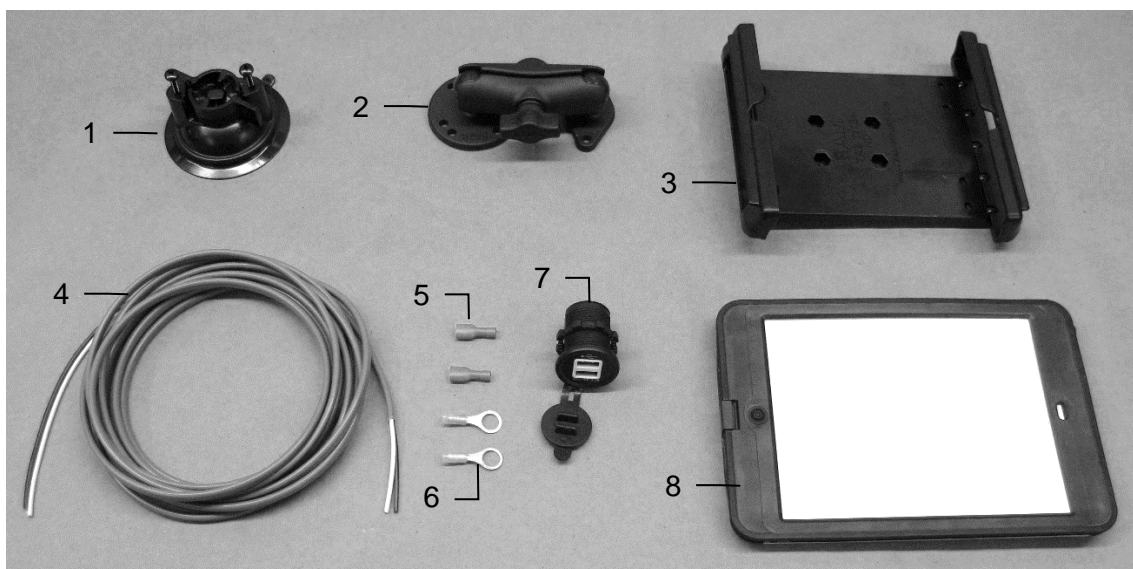
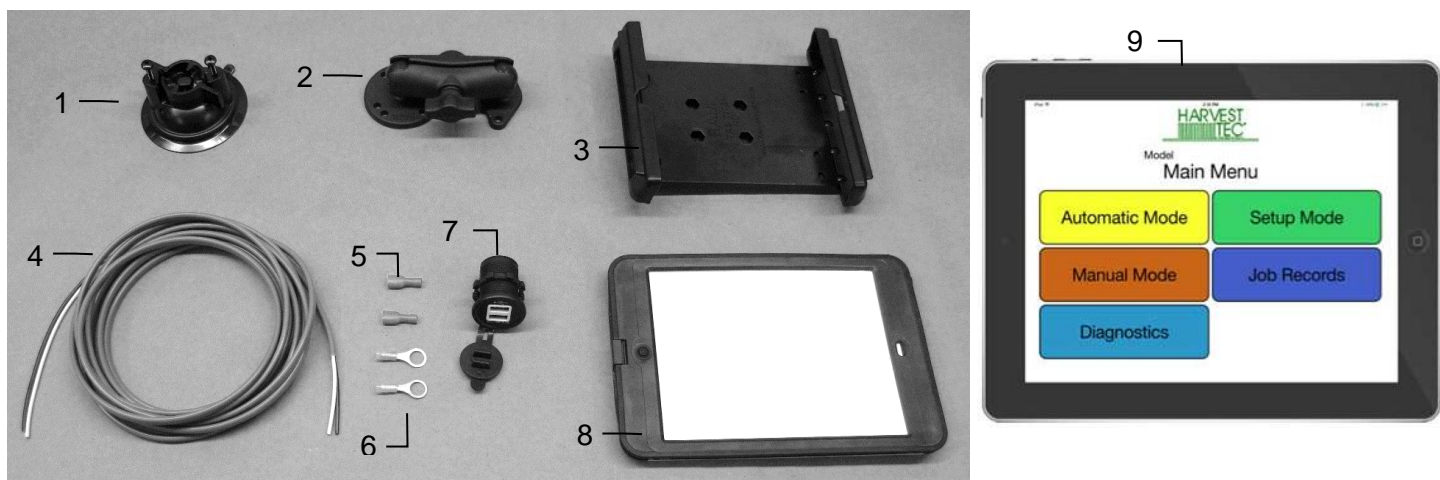| Ref	Description	Part #	Qty
1	Suction cup mount	001-2012SCM	1
2	Ram mount	001-2012H	1
3	iPad Mini® spring load cradle (Mini 4)	001-2012SLC	1
4	16 gauge power wire	006-4723P	1
5	Female spade connector	Hardware	2
6	Eye loop connector	Hardware	2
7	iPad Mini Charger 12V	001-2012P	1
8	iPad Mini 4 case	001-2012C4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

Installation Instructions

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

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

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

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		Mounting Kit Assembly	030-4670DK (Includes All Parts)	

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.

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Harvest Tec LLC. Warranty and Liability Agreement

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

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

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

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

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

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

Revised 4/17

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