Installation Manual

Model 795K

110 Gallon Preservative Applicator

for Krone Big Pack 1290 HDP VC- Gen 5

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 UKCA

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: 795K-INST-23-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

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Introduction

Thank you for purchasing the 700 series hay preservative applicator system. This applicator system has been designed to be operated through an optional Harvest Tec display, an iOS/Android tablet (not included) using the Precision Baling App, or to plug directly into an ISOBUS display.

The 700 Series Preservative Applicator System is designed to apply buffered propionic acid to the forage crop as it is baled. Failure to follow instructions can result in personal injury or equipment malfunction. If you need parts for the system, please view the Parts Breakdown toward the back of this manual and contact your local authorized dealer to order the parts. This applicator is designed to apply Harvest Tec buffered propionic acid.

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

System Requirements

***Made for Harvest Tec Display, Baler Integration, or Tablet***
For best performance ensure all displays are running the latest operating system.

Tools Needed:

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

System Overview
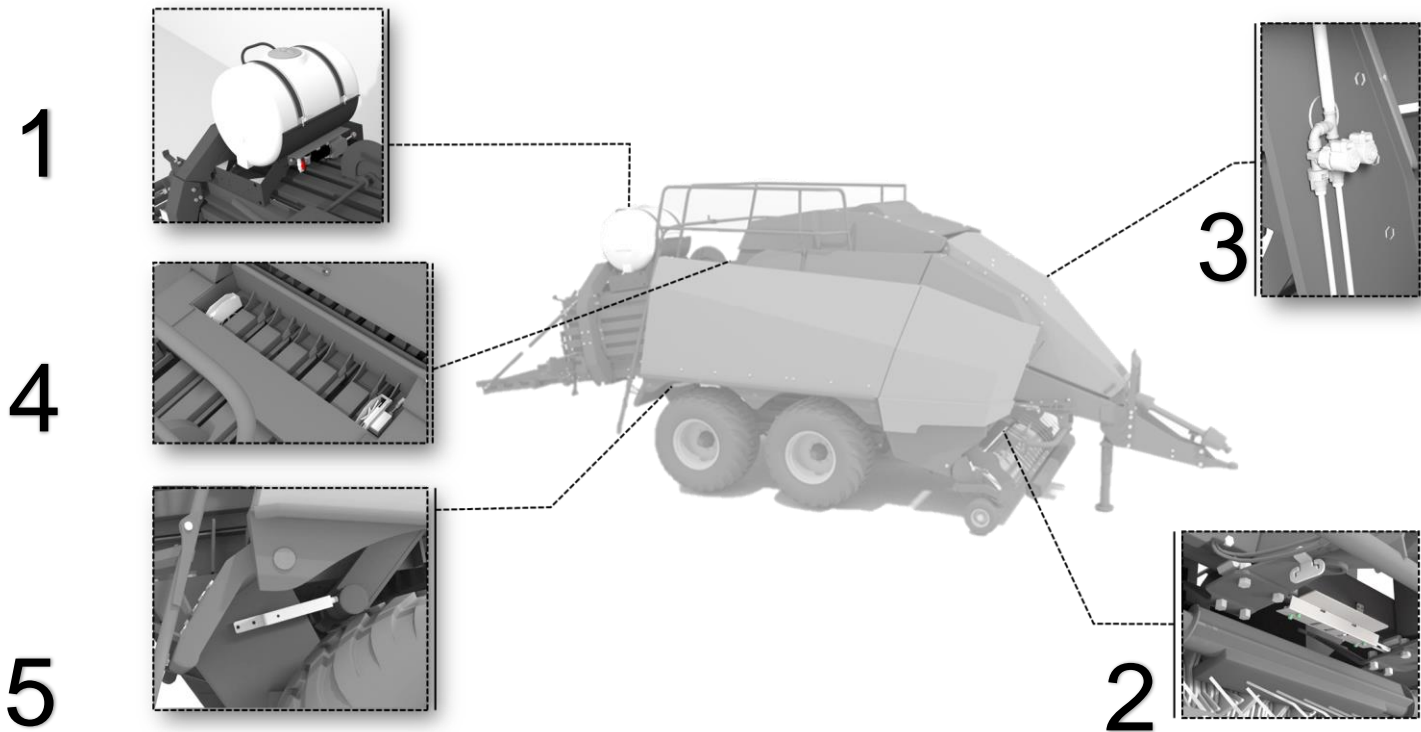
The 700 series applicator system consists of five main areas of installation, these include:

1) Tank Mounting Installation
2) Spray Shield Installation
3) Solenoid Installation
4) Star Wheel Installation
5) End of Bale Installation

Tank, Saddle, and Pump, Installation

This will mount on the bale chute towards the rear of the baler. All mounting and parts should be verified prior to beginning installation. Follow *Installation of Tank, Saddle, and Pump* section for step-by-step instruction.

Spray Shield Installation

The spray shield assembly is designed to spray the hay evenly as the baler picks it up. This holds the tips and is connected to plumbing to apply preservative as precisely as possible. Follow the *Installation* of *Spray Shield* section for sketches of the spray shield nozzle holders and step-by-step instruction.

Solenoid Installation

The dual solenoid setup is to be mounted as close to the spray shield as possible. This will provide the best result to ensure the proper output of preservative is applied through the nozzles. Follow *Installation of Solenoids and hose routing* section for step-by-step instructions.

Star Wheel Installation

This is the moisture setup for the applicator system, installation will be done on top of the bale chamber so the star wheels can make sufficient contact with the bale. Follow *Installation of Star Wheel Moisture Sensor* sections for step-by-step instruction.

End of Bale Installation

The end of bale sensor determines the position of the needles on the baler. When the needles cycle the sensor communicates this information to the 700 series. Installation of this sensor is required for use with the Harvest Tec Virtual Terminal. Follow *Installation of End of Bale Sensor* section for step-by-step guide.

Installation of Applicator

Installation of Tank, Saddle and Pump

1. Locate parts bag 3. Install the two leg adapters (001-6707KK) to the frame of the baler at point A as seen in Figure 1. Secure leg adapters (001-6707KK) to each side with 3 ½ x 1 ¼" button head cap screws, locks, flat washers, and nuts. Repeat for both leg adapters.

2. Attach each saddle leg (001-6706KH-right saddle leg and 001-6707KC-left saddle leg) onto the leg adapters (001-6707KK) using five ½" x 1 ½" bolts, locks, flat washers, and hex nuts shown at point B in Figure 1. Repeat for both saddle legs.
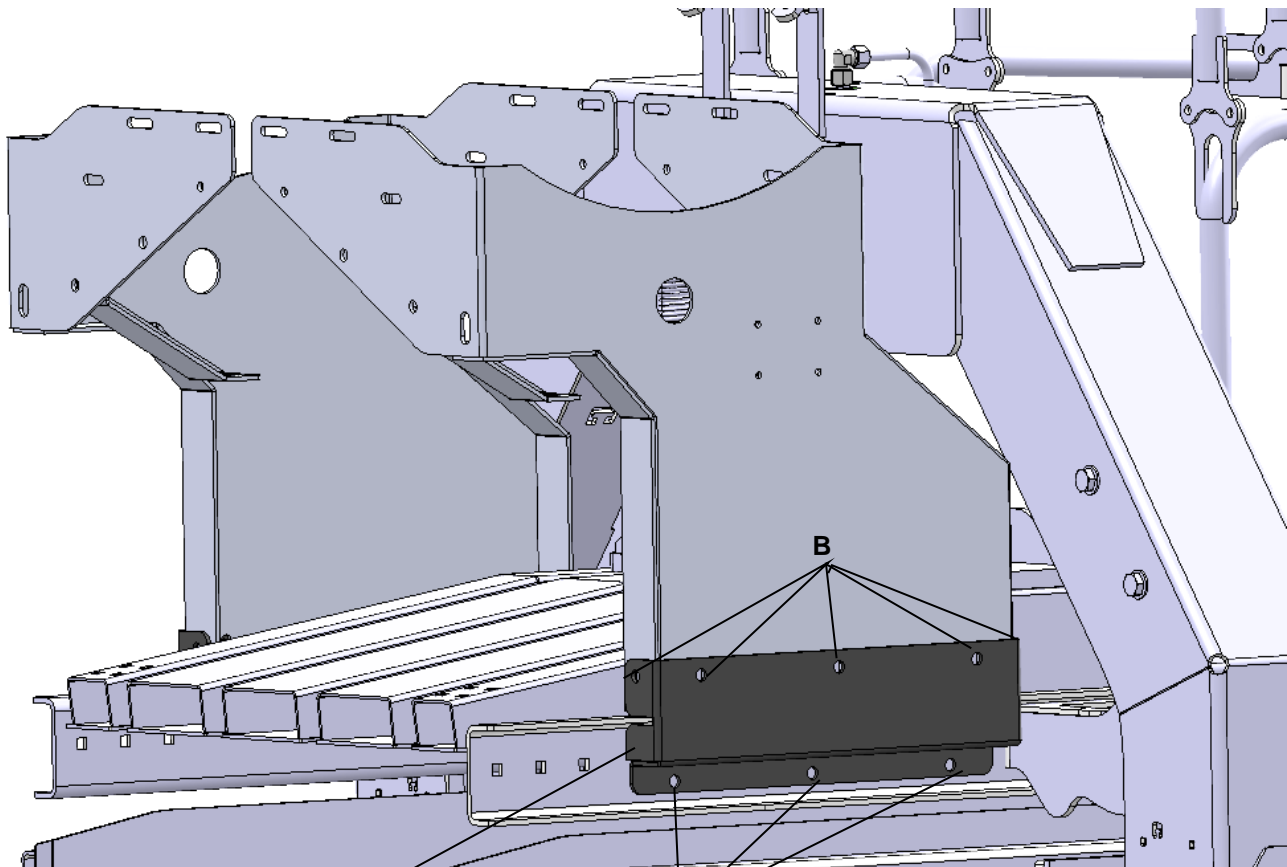
Figure 1

001-6707KK

Figure 2

Figure 3

Installation of Tank, Saddle and Pump (continued)

3. Once the saddle legs are attached, locate the tank support brackets (001-6707KJ) and secure one end of each to the tank brackets at point C in figure 4, and the other end to the support bar over the bale chamber as seen in figure 4 @ point D.
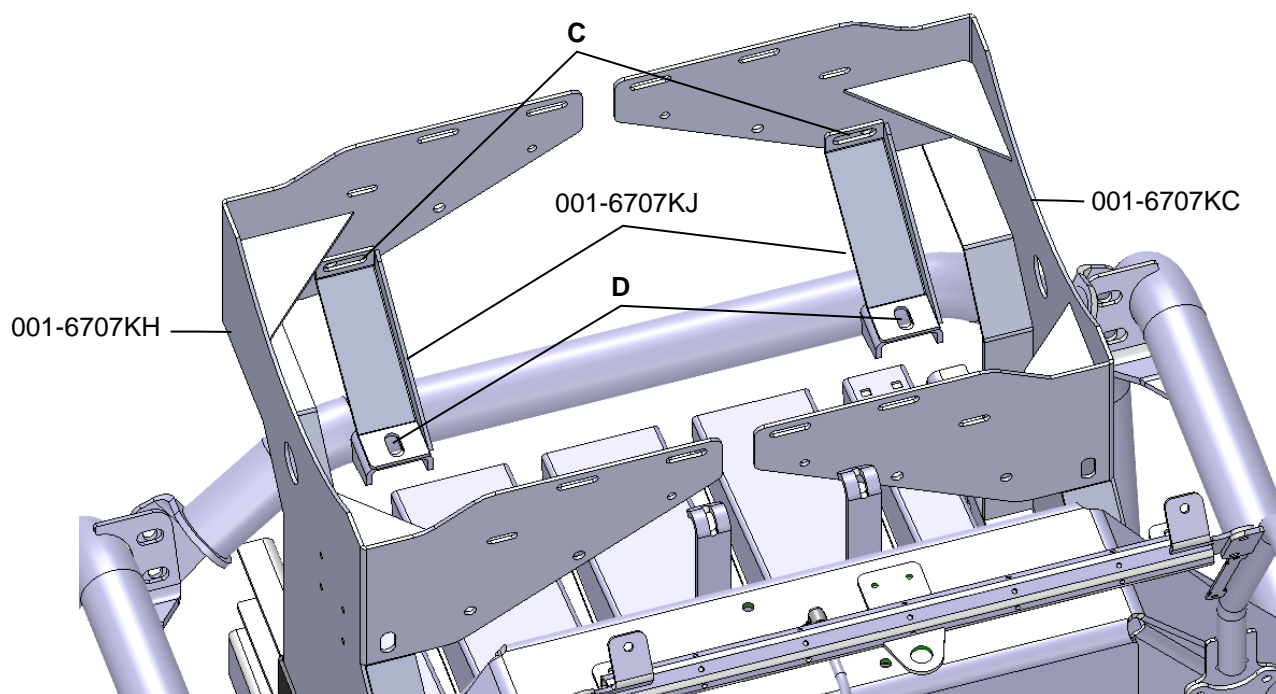
Figure 4

4. Once the tank legs and support brackets are in place, attach the tank and saddle assembly (001-6706A) to the legs with eight 3/8" x 1-1/4" bolts, locks, and flat washers at point E in figure 5. For 3 x 3 balers the slots in the legs will attach to the second and fourth weld nuts in from each end, of the saddle, on both sides.
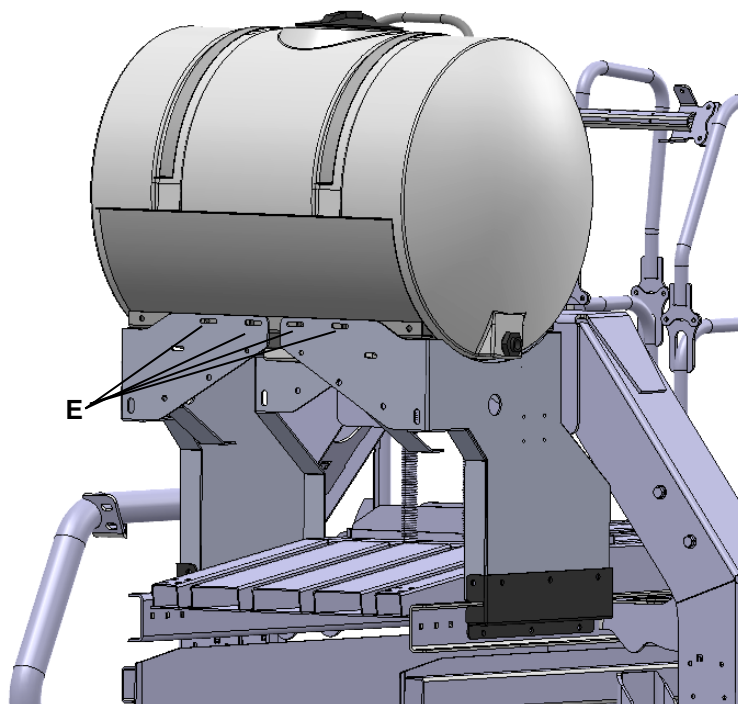
Figure 5

Installation of Tank, Saddle and Pump (continued)

Attach Pump Plate to Tank Saddle

1. Connect control (006-7671LS) to pump plate (PMP-7636P) with four 10/32" x 5/8" Philips flat head screws and nylock nuts.

2. Attach triangle plug from flow meter to controls and rubber molded plug from pump to mating plug from control.

3. Attach pump plate assembly (PMP-7636P) to tank saddle (001-6707A) with two 3/8" x 3/4" flange bolts and nuts. Holes in bracket will line up with holes in main saddle. You may need to remove two of the bolts used to attach saddle to legs for bracket to fit. Reuse bolts to secure bracket to saddle and legs.

4. Locate parts bag 16. Locate elbow (003-EL3412) and thread into bottom of tank.

5. Locate parts bag that was with pump plate assembly and choose fitting to place in valve next to filter.

6. Run 1/2" hose from bottom of tank to valve on pump plate and secure with hose clamps.

7. Chose and thread fitting into pump discharge.

   Note: Pressure washing the pump plate can lead to water damage internally of the ISO Pump Module (IPM).
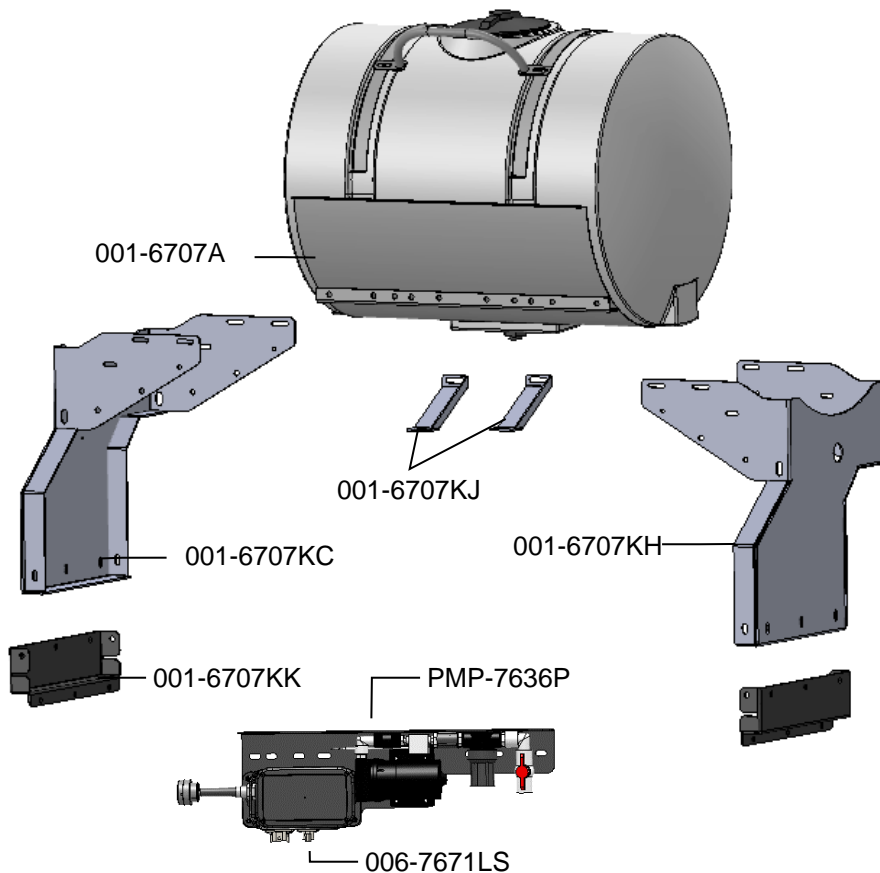

001-6707A

001-6707KJ

001-6707KC

001-6707KH

001-6707KK

PMP-7636P

006-7671LS
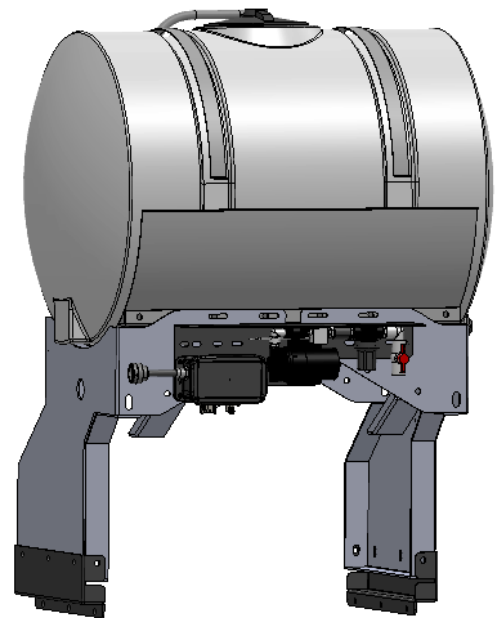
Figure 6

Figure 7

Installation of the Drain/Fill Line

1. Locate parts bag 1.

2. Thread 3/4" elbow fitting into end of tank.

3. Run hose from the elbow down the frame to the bottom of the baler.

4. Drill 1/4" (7mm) holes to accept the valve holder bracket and use 5/16" x 1" self-tapping screws.

5. Connect valve assembly to other end of hose. Place hose clamps on both ends.

6. Secure hose to frame using cable locks.

7. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly.

Figure 8
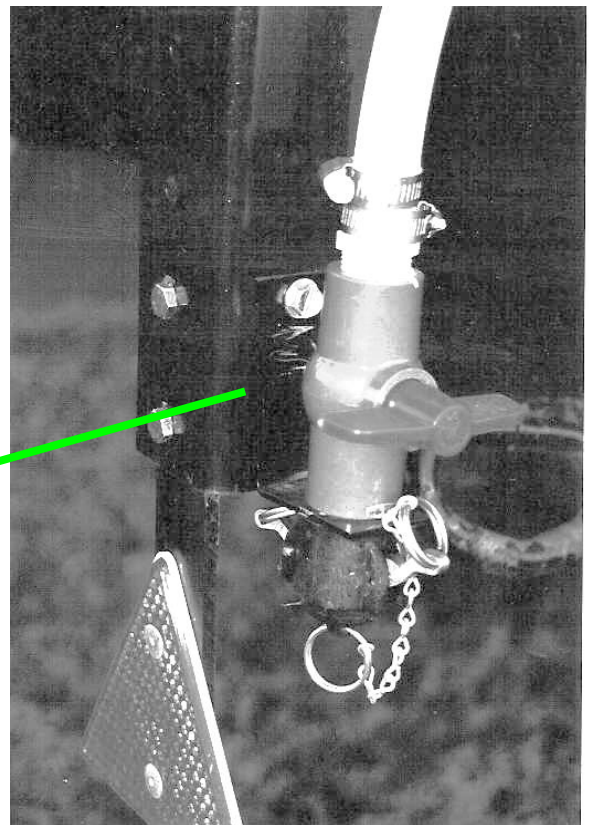
Figure 9

Installation of the Spray Shield

Installation Kit 4548C
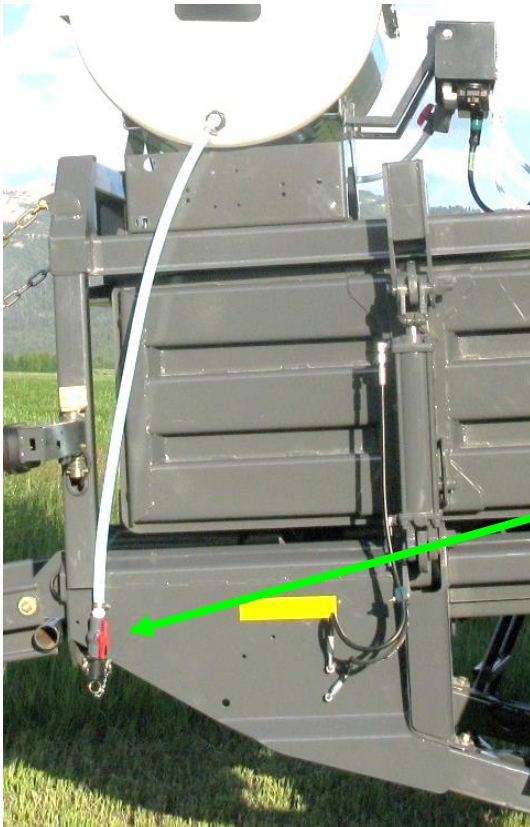The spray shield assembly is designed to spray the hay evenly as the baler picks it up. A sketch of the spray shield nozzle holder and installation instructions are shown below.

Figure 10
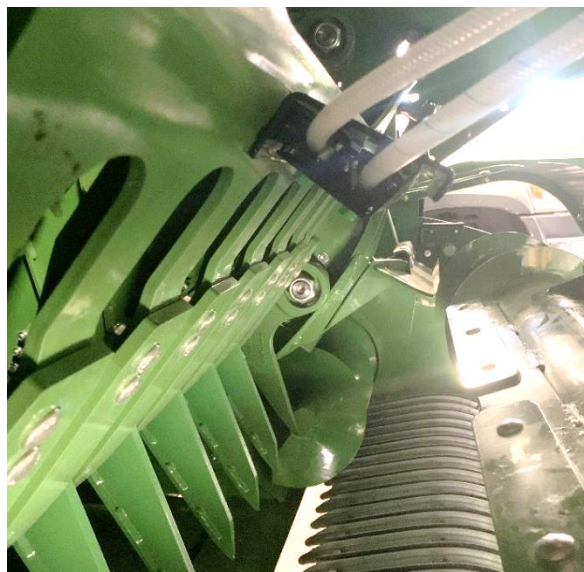
Figure 11
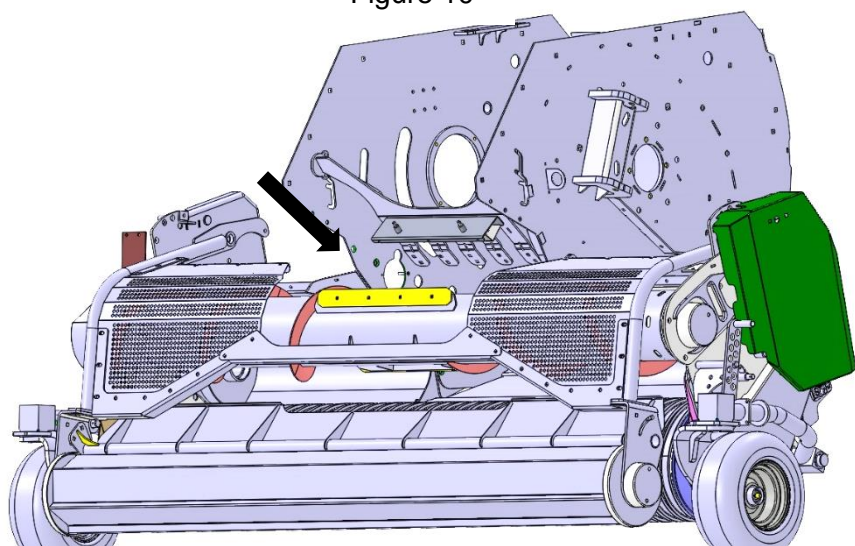
Figure 12
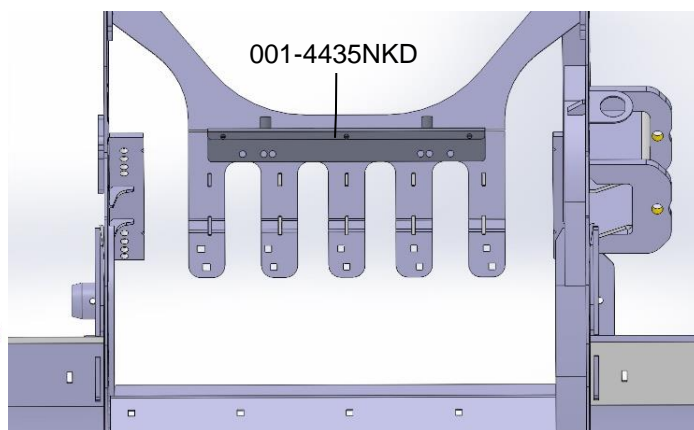
001-4435NKD
Figure 13

Locate the shield holder (001-4435NKD). Align the bottom of the rear flange with the top of the cutout, center, and clamp in place. Locate the outside two holes on the 001-4435NKD bracket (they are 13 ½" apart), mark and drill two 7/16" (11mm) holes through the transition shield. Secure shield holder (001-4435NKD) to baler with the supplied 3/8" (10mm) hardware. Secure the spray shield (001-4435NSX) to the shield holder with lynch pins. Route the attached hoses and check valves towards the right side of the baler.

Installation of Solenoids and Hose Routing

A. Once spray shield is mounted, ensure solenoids 002-2203F are mounted using the solenoid mount plate 001-4648DSH as close as possible (max distance 3ft) to the spray shield. This will ensure the most precise application of the preservative.

Solenoids
002-2203F

Solenoid Harness
006-3650-S1

Solenoid Mount
001-4648DSH

B. Once solenoids are mounted, streamline solenoid harness 006-3650-S1 along baler back to connection on main baler harness 006-765B2 once installed. Solenoid with white dot attaches to SOL 1 and Solenoid with blue dot attaches to SOL 2. Connect harnesses and ensure they are secure.

C. Route ½" hose along the path or similar, inside of the baler from the pump plate to the solenoid plate, as shown in picture above. Keep hoses away from moving parts and hydraulic hoses. When all hose connections are made to the tank, pump, solenoids, and spray shield secure with existing cable clamps or use cable ties.

D. Connect 1/4" reinforced hoses from spray shield to solenoids. Note: Make sure solenoid with white dot attaches to spray shield with white dot. Follow same procedure for Blue dot.

Tip Connections

Dot color	Tip	Hose color	Position on 765B2 wire
White Dot	8004 or 11004	White	Sol 1
Blue Dot	8008 or 11008	Blue tracer	Sol 2

Installation of Main Wire Harness Routing and Connections

Route harness 006-765B2 along this path or similar on top of or inside of the baler from the pump plate to the hitch of the baler. The main wire harness will route along the top right corner of the bale chamber and along the top of the frame to the front right corner of the baler. The integration harness will cross over to the LH side of the baler and connect. A 7-10ft extension for the main wire harness connects between the harness on the tractor and the main wire harness.

Note: the end of the harness that has the large plug with sockets and the white heat shrink label, will be at the hitch of the baler. The other end attaches to plug on pump plate. Keep harnesses away from moving parts and hydraulic hoses.

Note: if the baler's port for the baler integration harness requires a 6 pin instead of 4 pin connection, remove the 4 pin connector on the integration harness (006-765VAK2) and install the 6 pin connector plug end included with the integration harness.

Identification on plugs on (006-765B2)

Sol 1 and Sol 2. Plugs. These attach to the solenoids with two 006-3650-S1 harness. Sol 1 attaches to the solenoid with a white dot. Sol 2 attaches to the solenoid with a blue dot.

EOR Plug (end of row) is for the "Optional" crop eye kit. (474C)

CAN/IDM Plugs are for use with "Optional" Moisture Dye Marking kit. (740DM), ISOBUS integration with compatible balers, future expansion, or CAN termination.

EOB Plug is for the (end of bale) sensor that is attached by the needle arm.

Secure with existing cable clamps or use cable ties when all connections are made.

Installation of Star Wheel Moisture Sensors

1. Locate the two-star wheel moisture sensors (030-4642U/UE).
2. The star wheels will be placed as close to the knotter as possible.
3. Install the four (two per side) 5/16" x 3" allen head cap screws. Make sure the allen heads are in the bale chamber.
4. The star wheel with the 6-position plug will need to be placed on the LH side of HDP model balers.
5. The star wheel with the 2-postion plug will then be placed on the RH, or ladder side, of HDP model balers.
6. Secure the star wheels to baler with four 5/16" hex nuts and lock washers.
7. Connect moisture harness (006-7307EM3) to both star wheels.
8. Run other end of (006-7307EM3) along top of baler back to the pump module located on the tank saddle.
9. Attach rectangle plug to bottom of pump module.
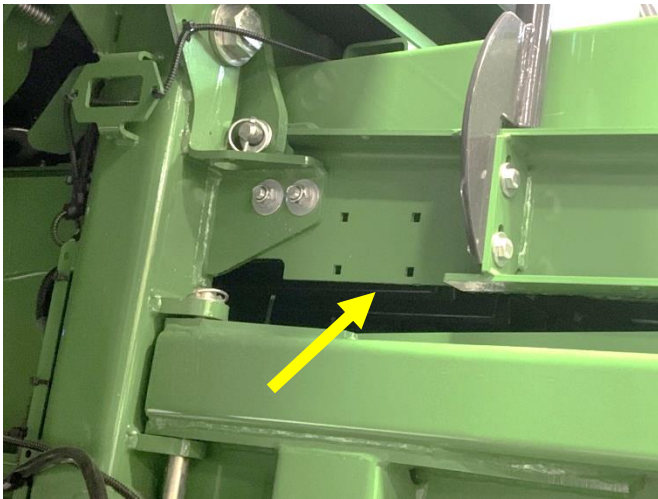
Star Wheel Mounting location shown for the LH side; Star Wheel mounting is same for the RH side.
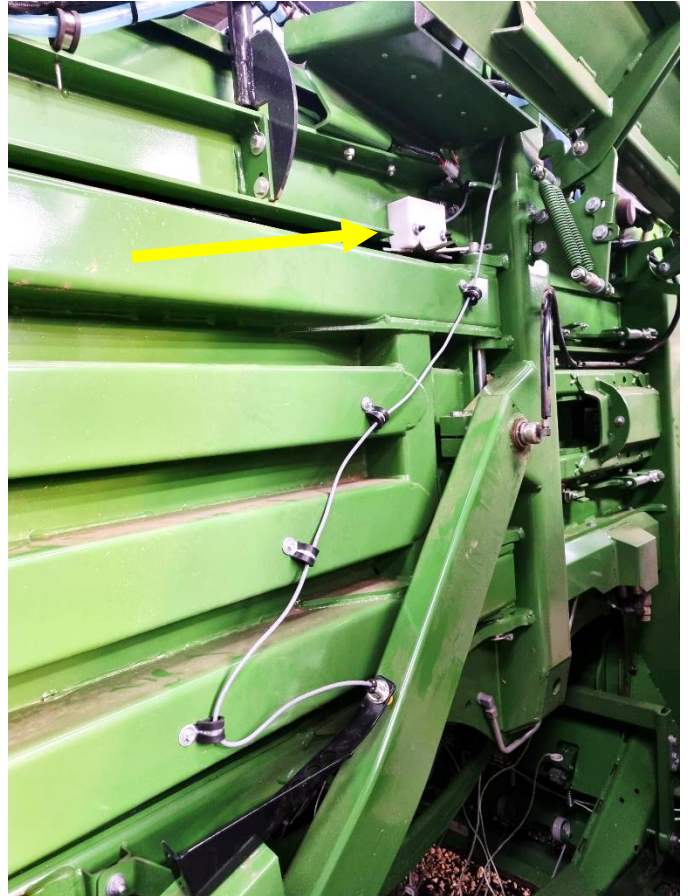
Installation of End of Bale Sensor

The end of bale sensor determines the position of the needles on the baler. When the needles cycle the sensor communicates this information to the controls. This information is used for job records and will be used by the optional Bale Identification System.

Mount the Krone end of bale sensor bracket (001-4648K3) as shown. The Krone mounting bracket can be found in the installation kit box. Attach the bracket using the existing hardware on the baler as shown in fig.14. Mount the sensor at the end of the bracket, keep the sensor 1/4" (7mm) from the needle and tighten both bolts. Run the sensor cable up to the main harness (006-765B2) and attach to port labeled EOB.
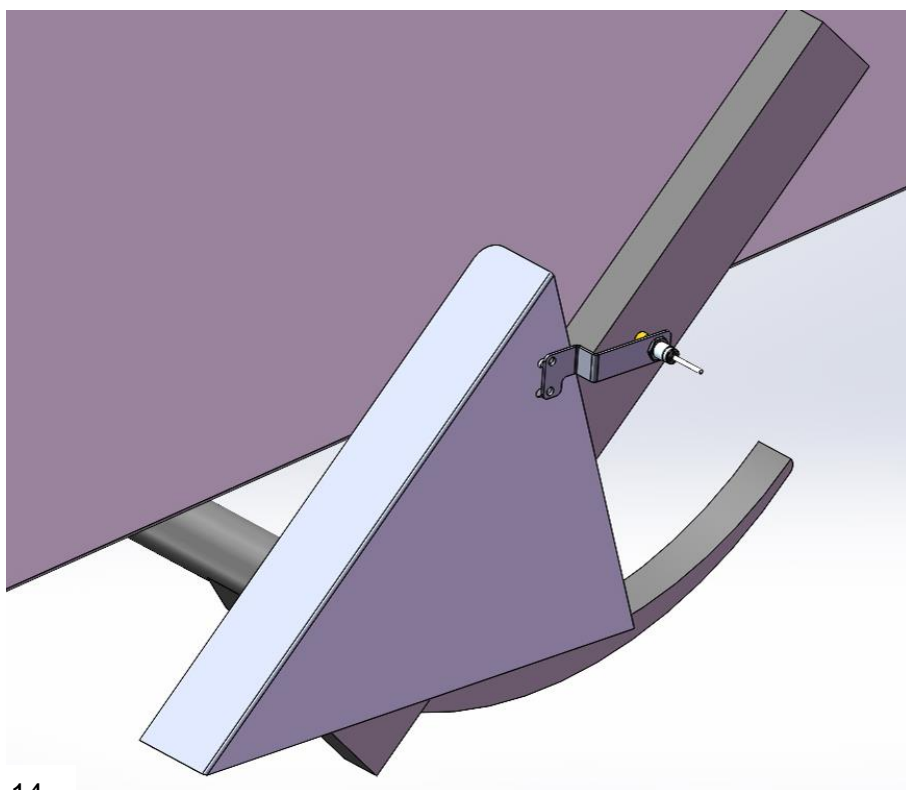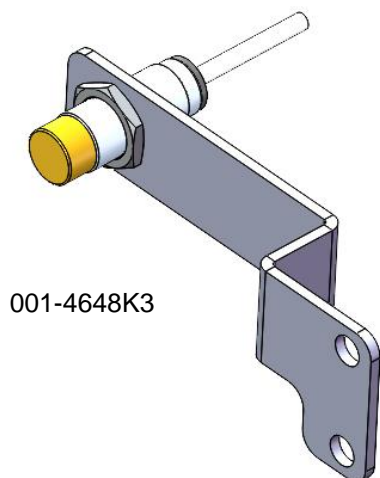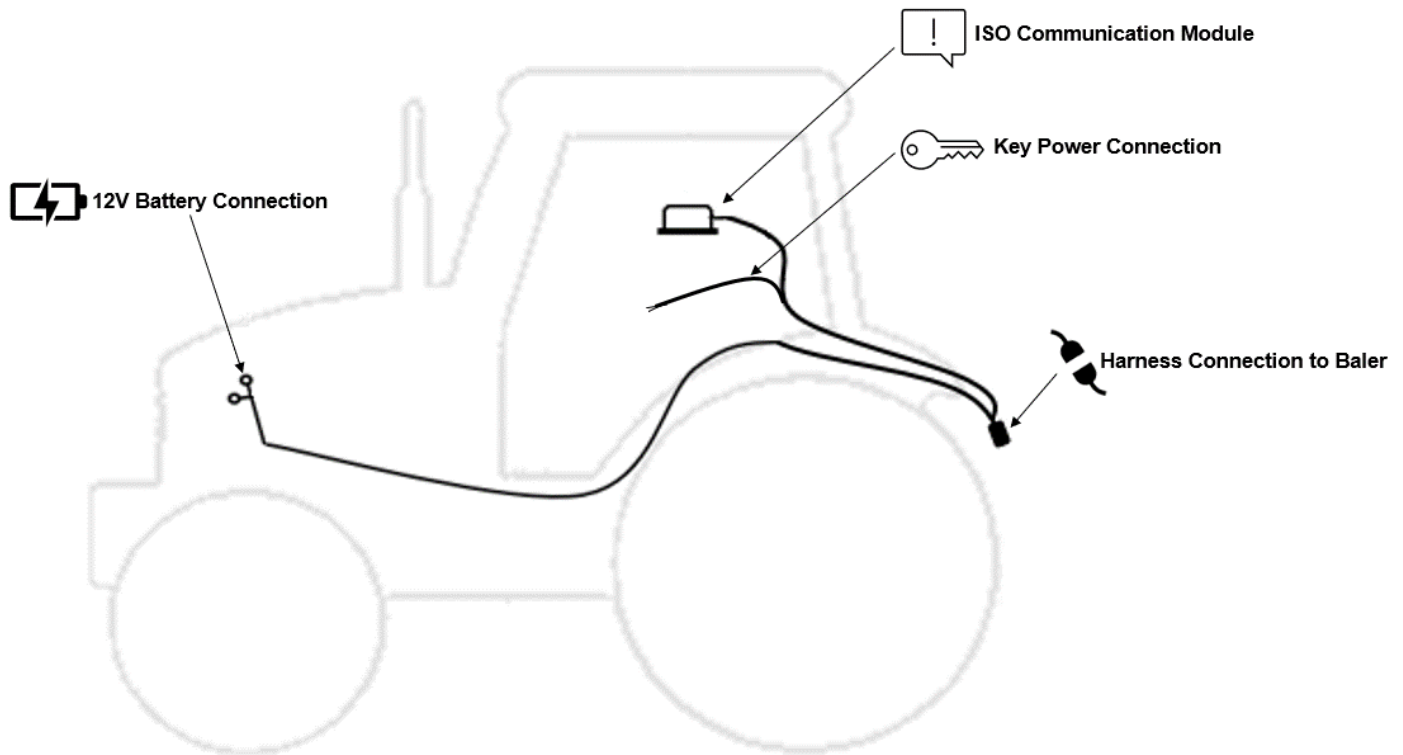
001-4648K3

Figure 14

*Use existing hardware on baler as seen in the figure 14 to mount the 001-4648K3 bracket

Tractor Setup

The general tractor setup of the 700 Series applicator can be seen above. The main harness of interest is the tractor power/communication harness (006-765IC). This harness will connect at the tractor battery, to the ISO Communication Module (ICM) mounted in the cab, a keyed power connection point, and connect at the hitch area to the baler power/communication harness (006-765B2). View below to see highlighted installation instruction:

12V Battery Connection

The 12V battery connection must be at the tractor battery. Connection to alternative locations such as an accessory port can cause problems with applicator system.
MUST BE CONNECTED DIRECT TO TRACTOR BATTERY TERMINALS

ISO Communication Module

The ISO communication module is to be mounted inside the cab. Other mounting locations can lead to issues with weathering and operation. Once installed and the system is powered, a green light will turn on with the ICM module.

Key Power Connection

Ensure a solid keyed connection is found inside the cab and wired into. Poor keyed power connection can result in applicator system issues.

Harness Connection to Baler

The tractor harness connects at the hitch to baler power/communication harness (006-765B2). This will allow the system components to communicate with one another. Ensure connections are debris and corrosion free.

Display Options

Optional Harvest Tec Display

The 700 series Harvest Tec Display will allow you to set your real time baling parameters to ensure the most precise application to every bale. This is done by utilizing the improved touch technology to select objects, enter data, and swipe through operational screens.

The Harvest Tec Display offers easy integration by connecting to the additional CAN plug on the 006-765IC harness. Once, connected the Harvest Tec display will power up with applicator system.

Note: The Harvest Tec Display must be used as a standalone display, the baler cannot run both integrated and on the Harvest Tec Display. Must be one or the other. Removal of the 006-765VAK or integration harness is required when equipped.

Optional Tablet Display

Precision Baling App

The iOS or Android Tablet displays offer the ability to communicate with the 700 series applicator system via hard-wired connection to the ISO Communication Module (ICM). Through the free Precision Baling App, the operator can set real time baling parameters to ensure the most precise application to every bale.

This provides a multi-use option while utilizing the improved app to select objects, enter data, and easily switch through operational screens. The Tablet Display offers easy integration by connecting a charging cable to the USB port on the ICM module. Once connected the Harvest Tec applicator will display upon opening the app and powering up the applicator system. Tablets can be used in addition to integrated baler VT display.

*Made for iPad®
Required to be running the most current operating system or one version previous.
*iPad is a trademark of Apple Inc., registered in the U.S. and other countries.

Wiring Diagram – 700 Series

1. Connect the power harness (006-765IC) 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!
      CONTACT HARVEST TEC BEFORE MODIFICATIONS.
      The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty
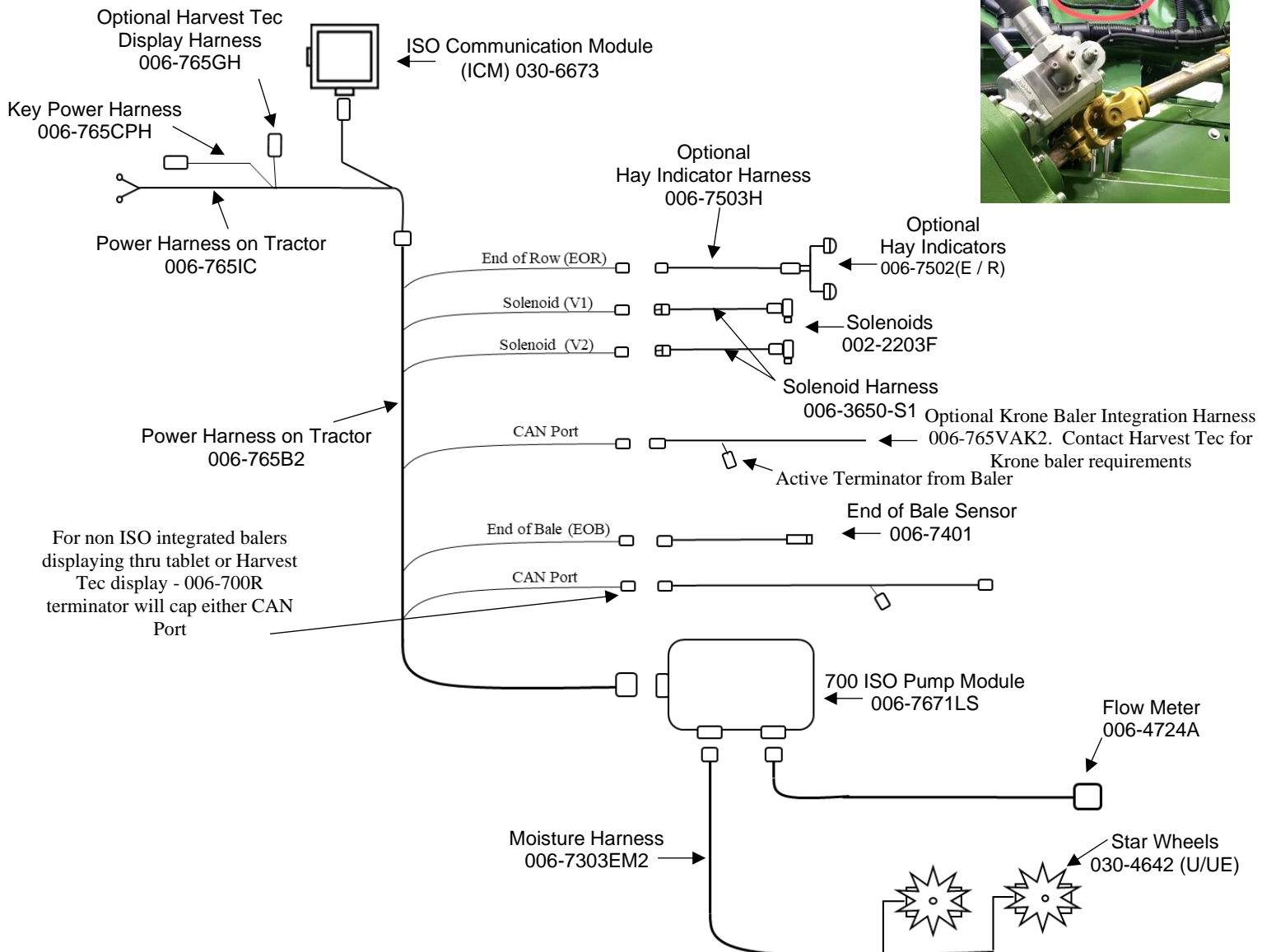   **B. This unit will not function on positive ground tractors.**
   C. If the unit loses power while operating it will not keep track of accumulated pounds of product used.
2. The power harness on the tractor (006-765IC) will run from the tractor battery to the hitch. The power harness on the baler (006-765B2) will connect to the tractor power harness (006-765IC) at the hitch.
3. Connect the keyed power wire (006-765CPH) 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 ISO Communication Module (006-6673) to the tractor power harness (006-765IC).
5. Attach the End of Bale (EOB) connection on baler harness (006-765B2) to the EOB Sensor (006-7401).
6. Attach the Solenoids (SOL 1 & 2) connections on the baler harness (006-765B2) and to the solenoids (002-2203F).
7. Attach the Flowmeter (006-4724A) to the Pump Module connection on pump plate assembly.
8. Attach the rubber molded connector on pump plate to the Pump (007-4120DE).
9. Attach star wheel (030-442U/UE) connection to the pump module
10. Connect either 006-700R terminator OR 006-765VAK2 integration harness (specific Krone balers only). If connecting 006-765VAK2 harness, CAN port is located on the LH side of the baler. See image to the right.

Optional Harvest Tec Display Harness 006-765GH

ISO Communication Module (ICM) 030-6673

Key Power Harness 006-765CPH

Power Harness on Tractor 006-765IC

Power Harness on Tractor 006-765B2

Optional Hay Indicator Harness 006-7503H

Optional Hay Indicators 006-7502(E / R)

End of Row (EOR)

Solenoid (V1)

Solenoid (V2)

Solenoids 002-2203F

Solenoid Harness 006-3650-S1

CAN Port

Optional Krone Baler Integration Harness 006-765VAK2. Contact Harvest Tec for Krone baler requirements

Active Terminator from Baler

End of Bale (EOB)

End of Bale Sensor 006-7401

CAN Port

For non ISO integrated balers displaying thru tablet or Harvest Tec display - 006-700R terminator will cap either CAN Port

700 ISO Pump Module 006-7671LS

Flow Meter 006-4724A

Moisture Harness 006-7303EM2

Star Wheels 030-4642 (U/UE)

Pin Outs

Integrated Control Module (ICM) on harness 006-765IC
(Deutsch Plug Number: DTM06-12SA)

Pin 1	Red	+12V from ECU
Pin 2	Purple	Signal Wire
Pin 3	Red/White	+12V CAN X
Pin 4	Black/White	Ground CAN X
Pin 5	Orange	CAN X Hi
Pin 6	Blue	CAN X Lo
Pin 7	Green	ISO CAN Lo
Pin 8	Yellow	ISO CAN Hi
Pin 9	White	GPS Expansion 1
Pin 10	Gray	GPS Expansion 2
Pin 11	Brown	GPS Expansion 3
Pin 12	Black	Ground from ECU
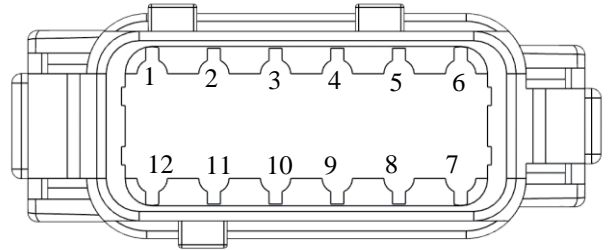
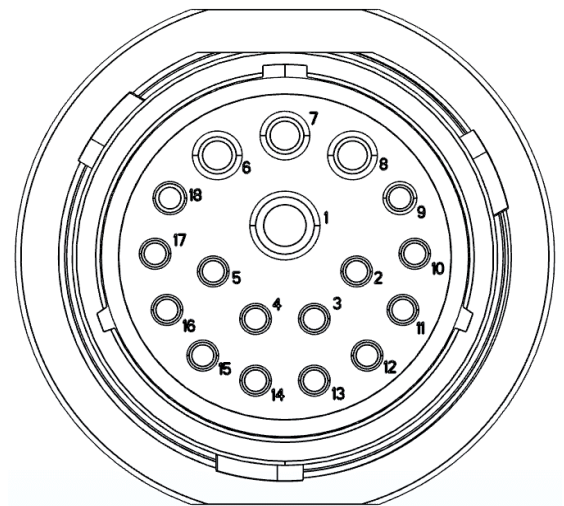ISOBUS Plug on harness 006-765IC
(Deutsch Plug Number: DT04-4P)

Pin 1	Red	+12V from ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground from ECU
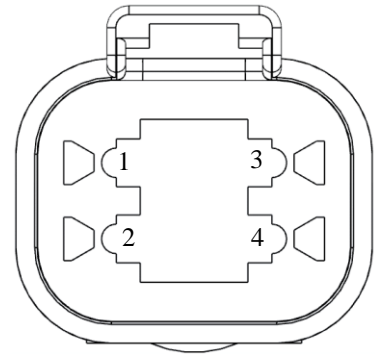
Power / Communication Harness 006-765IC at Baler Hitch
(Deutsch Plug Number: HDP24-24-18PN)

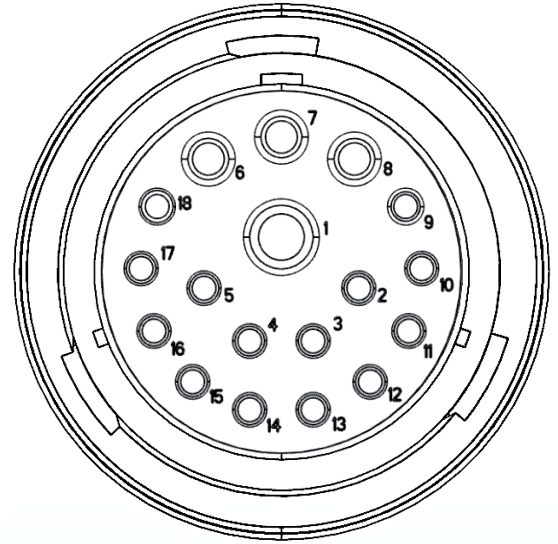|		
Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Purple	Signal Wire
Pin 11	Red/White	+12V CAN X
Pin 12	Black/White	Ground CAN X
Pin 13	Orange	CAN X Hi
Pin 14	Blue	CAN X Lo
Pin 15	White	GPS Expansion 1
Pin 16	Gray	GPS Expansion 2
Pin 17	Brown	GPS Expainsion 3
Pin 18	Not Used	----

Pin Outs (continued)

Power / Communication Harness 006-765B2 at Baler Hitch IPM
(Deutsch Plug Number: HDP26-24-18SN)

Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Not Used	----
Pin 11	Not Used	----
Pin 12	Not Used	----
Pin 13	Not Used	----
Pin 14	Not Used	----
Pin 15	Not Used	----
Pin 16	Not Used	----
Pin 17	Not Used	----
Pin 18	Not Used	----

Power / Communication Harness 006-765B2 at IPM Module
(Deutsch Plug Number: HDP24-24-18SN)

Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Orange/White	+12V Power to EOR
Pin 11	Orange/Black	Ground to EOR
Pin 12	Purple/Green	EOR Signal
Pin 13	Blue/White	EOB Signal
Pin 14	Gray/Red	+12V Power to Solenoid 1
Pin 15	White/Black	Ground to Solenoid 1
Pin 16	Orange/Red	+12V Power to Solenoid 2
Pin 17	White/Black	Ground to Solenoid 2
Pin 18	Not Used	----
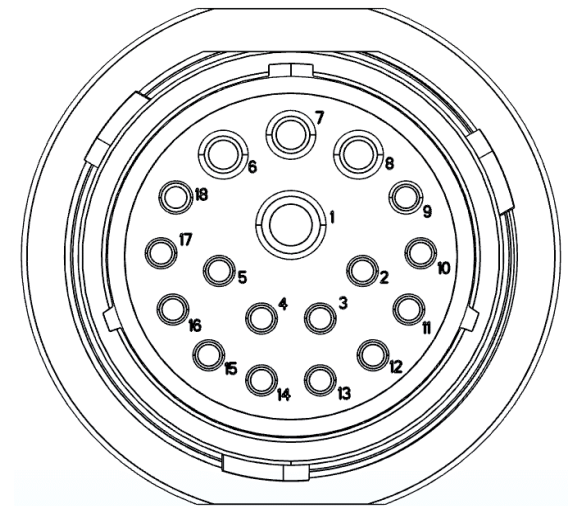
*IPM Module Whip Plug- Pin # 5 Not Used
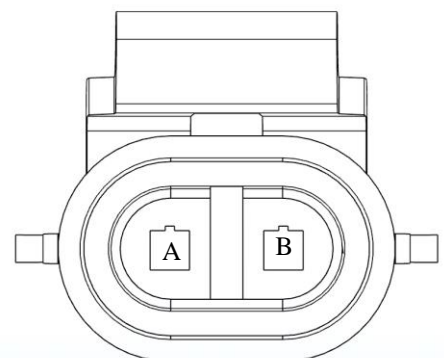
Solenoid 1 Plug on Baler Harness 006-765B2
(Deutsch Plug Number: APTIV 12052641)

Pin B	Gray/Red	+12V to Solenoid 1
Pin A	White/Black	Ground to Solenoid 1

Solenoid 2 Plug on Baler Harness 006-765B2
(Deutsch Plug Number: APTIV 12052641)

Pin B	Orange/Red	+12V to Solenoid 2
Pin A	White/Black	Ground to Solenoid 2

Pin Outs (continued)

CAN / IDM on Baler Harness 006-765B2
(Deutsch Plug Number: DT06-4S)

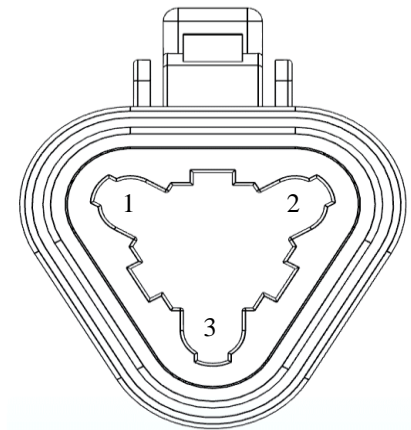|		
Pin 1	Red	+12V to Solenoid 2
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground to Solenoid 2
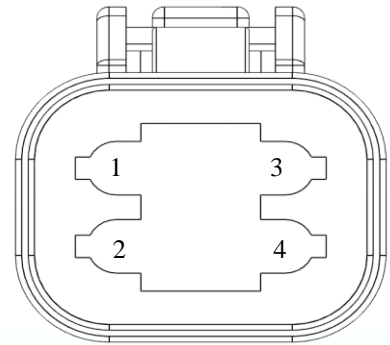
End of Bale Sensor Plug on Baler Harness 006-765B2
(Deutsch Plug Number: DT06-3S)

|		
Pin 1	Orange/White	+12V to End of Bale Sensors
Pin 2	Orange/Black	Ground to End of Bale Sensors
Pin 3	Blue/White	Signal

End of Row Sensors Plug on Baler Harness 006-765B2
(Deutsch Plug Number: DT06-3S)

Pin 1	Orange/White	+12V to End of Bale Sensors
Pin 2	Orange/Black	Ground to End of Bale Sensors
Pin 3	Blue/White	Signal

Integration Harness Plug on Baler Harness 006-765VAK2
(Plug: APTIV 12052848)

Pin 1	Not Used	----
Pin 2	Yellow	CAN Hi
Pin 3	Green	CAN Lo
Pin 4	Not Used	----
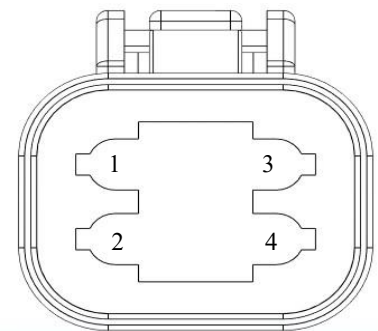
Pump Connection on 700 Controller Harness
(16 AWG Two-Wire Plug)

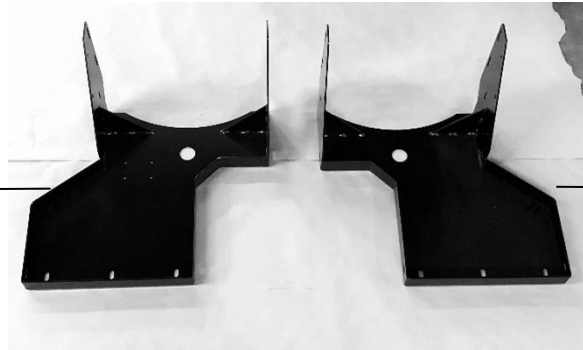|		
Pin 1	Red	Power to Pump
Pin 2	Black	Ground to Pump
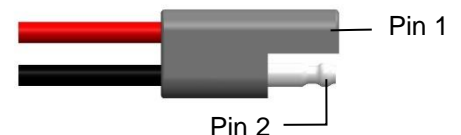
Parts Breakdown

Tank, Saddle and Legs 110 Gallon

Tank Lid
Part#: 005-9022H
 (8" Diameter)

Tank-110 gallon
Part#: 005-9208

Handrail
 Part#: 001-6707HR

Tank Straps
 Part#: 001-4402B

Tank Saddle
Part#: 001-6707A

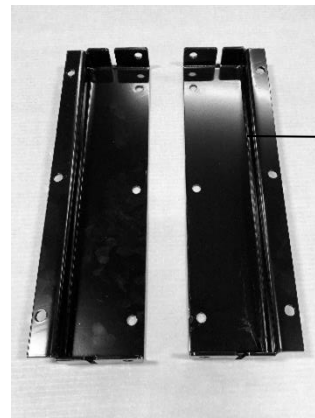**Tank Fitting**
Part#: 005-9100

Not Pictured: Elbow
Part#:003-EL3412

Tank Saddle Right Leg
Part#: 001-6707KH

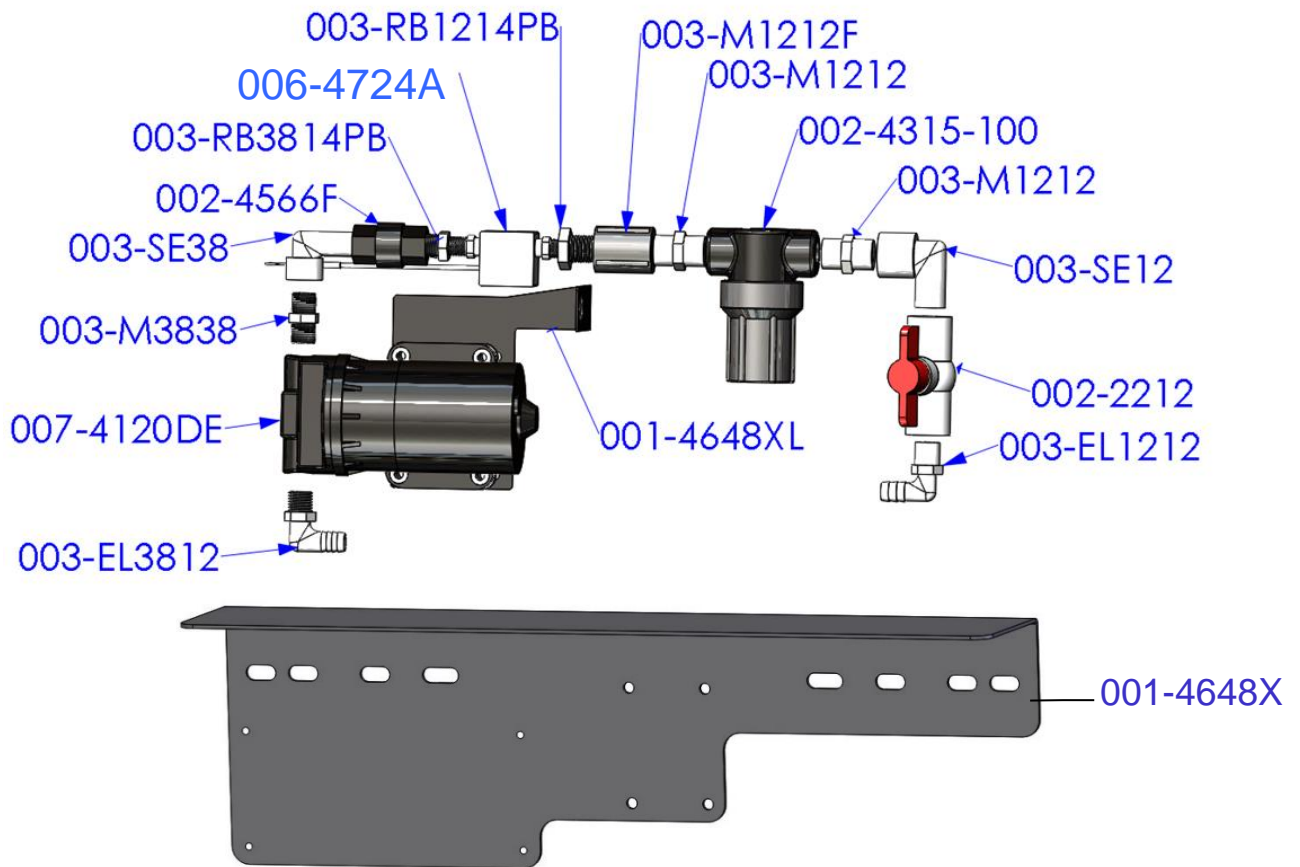**Tank Saddle Left Leg**
Part#: 001-6707KC
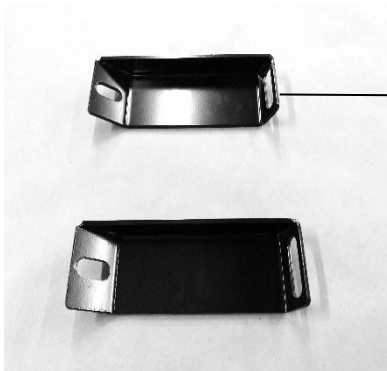
Tank Support Bracket
Part#: 001-6707KJ

**Channel Support Bracket**
Part#: 001-6707KK

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	700 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	700 Pump Support	1
006-4724A	Flow Meter	1		001-4648X	Pump Plate Mount	1
003-RB1214PB	RB 1/2" x 1/4" Reducer	1		003-A1212	1/2" MPT x 1/2" HB (not pictured)	1
003-M1212F	1/2" Coupler	1				
003-9003	Hose Clamp #6 (not pictured)	2		003-A3812	3/8" MPT x 1/2" HB (not pictured)	1

Completed Assembly (PMP-7636P)
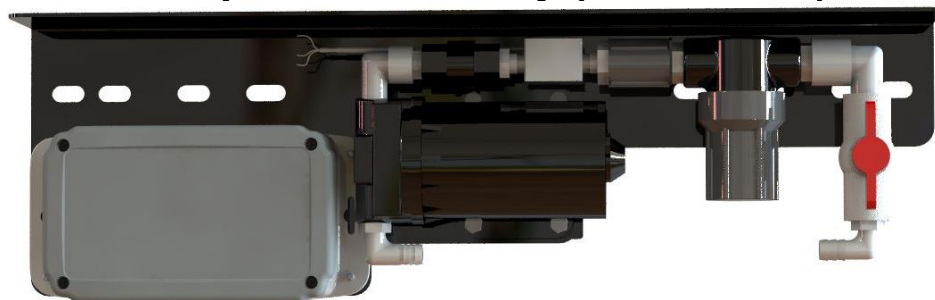
Note: Due to alternative baler designs, elbow 003-EL3812 can be replaced by straight fitting 003-A3812. As well as elbow 003-EL1212 can be replaced by straight fitting 003-A1212. Both straight fittings are included.

Star Wheel Sensors
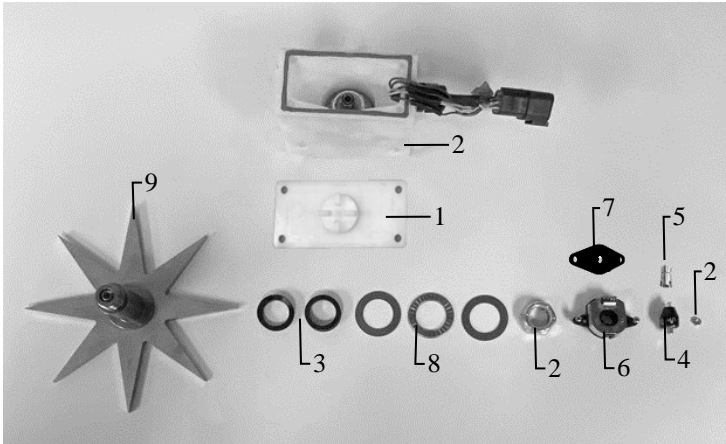
Ref	Description	Part#	Qty
1	Block Cover	006-4642UC	1
2	Star Wheel Block	006-4642UB	1
3	Star Wheel Gasket	006-4642UG	1
4	Electric Swivel	006-4642A	1
5	Swivel Insert	006-4642B	1
6	Encoder	006-4512E	1
7	Encoder Mount	006-4512P	1
8	Washers	006-4642K	1
9	Star Wheel	006-4642US	1
10	Encoder Harness (6 pin)	006-7307EM	1
NP	Moisture Harness (2-pin)	006-7307M	1
1-10	Star wheel assembly (w/ Encoder)	030-4642UE	1
1-5, 8-9	Star wheel assembly (No Encoder)	030-4642U	1

Hoses

Ref	Description	Part #	Qty
11	1/2" Hose (Tank to Solenoid)	002-9001	30ft
12	1/4" Hose (Solenoid to Tips)	002-9016	6ft

Moisture Harness

Ref	Description	Part #	Qty
1	Moisture Harness	006-7307EM2	1

Control Box and Wiring Harnesses

Ref	Description	Part#	Qty		Ref	Description	Part#	Qty
1	Power Lead Baler 20'	006-765B2	1		NP	Baler Integration Harness	006-765VAK2	1
2	Power Lead Tractor	006-765IC	1		NP	120 Ohm Resistor	006-700R*	1
3	Key Switch Wire	006-765CPH	1		NP	Dust Plug Kit	006-765DP	1
4	IPM (ISO Pump Module LS)	006-7671LS	1					
5	ISO Communication Module	006-6673	1			*006-700R required when not integrating thru Baler ISOBUS		

End of Bale Sensor Kit
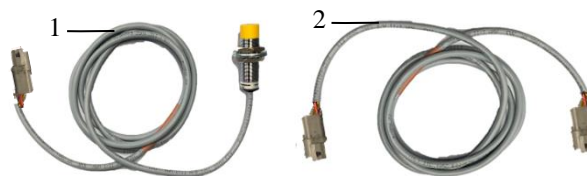
Ref	Description	Part #	Qty
1	End of Bale Sensor	006-7401	1
2	EOB 20' Extension	006-7401MXT	1

700 Solenoid Package
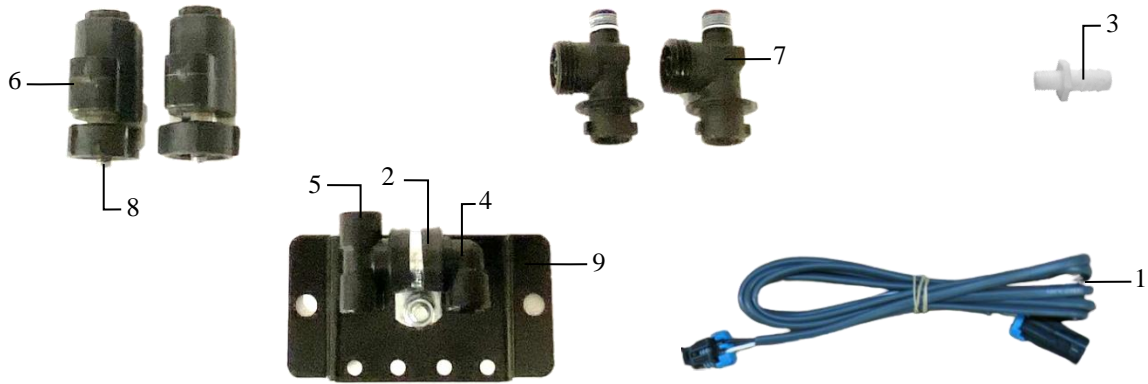
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Solenoid Harness (5')	006-3650-S1	2	6	Solenoid	002-2203F	2
2	Hose Clamp #6	003-9003	1	7	Solenoid Check Valve	004-1207VF	2
3	1/4" x 1/2" Straight Fitting	003-A1412	1	8	1/4" Nipple	003-M14	2
4	1/4" Elbow	003-SE14F	1	9	Solenoid Holder	001-4648DSH	1
5	1/4" Tee Fitting	003-TT14SQ	1	NP	O-Ring Kit	002-2203FG	2
				Complete Solenoid Kit		SOL-3SP-LS	

Hose and Drain/Fill Line

PBA-1

PBP-16
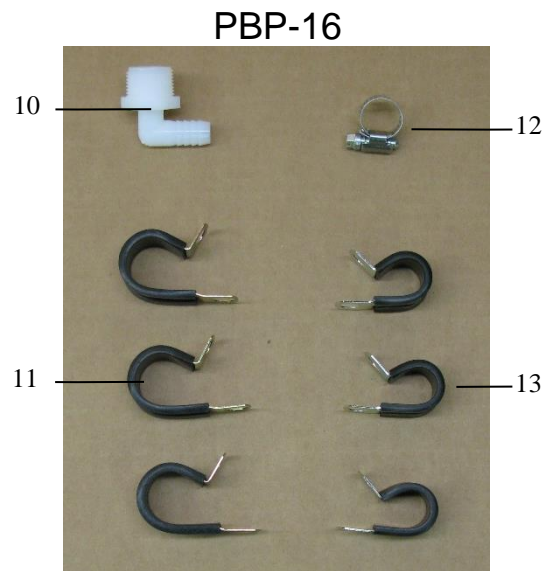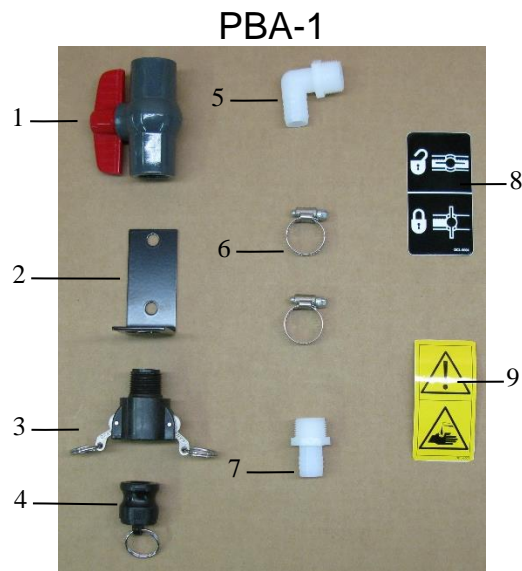
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	3/4" Ball Valve	002-2200	1	8	Valve Decal	DCL-8004	1
2	Valve Holder	001-6702H	1	9	Hazard Decal	DCL-8001	1
3	Female Coupler	002-2204A	1	10	3/4" x 1/2" Elbow	003-EL3412	1
4	Male Shut-Off Plug	002-2205G	1	11	3/4" Jiffy Clip	008-9010	3
5	3/4" x 3/4" Elbow	003-EL3434	1	12	#6 Hose Clamp	003-9003	1
6	#10 Hose Clamp	003-9004	2	13	Small Jiffy Clip	008-9009	3
7	3/4" x 3/4" Straight Fitting	003-A3434	1	10	3/4" x 1/2" Elbow	003-EL3412	1

Complete Drain Fill Kit   **030-0493DFK**

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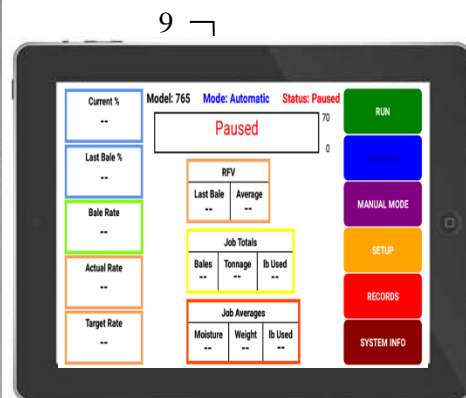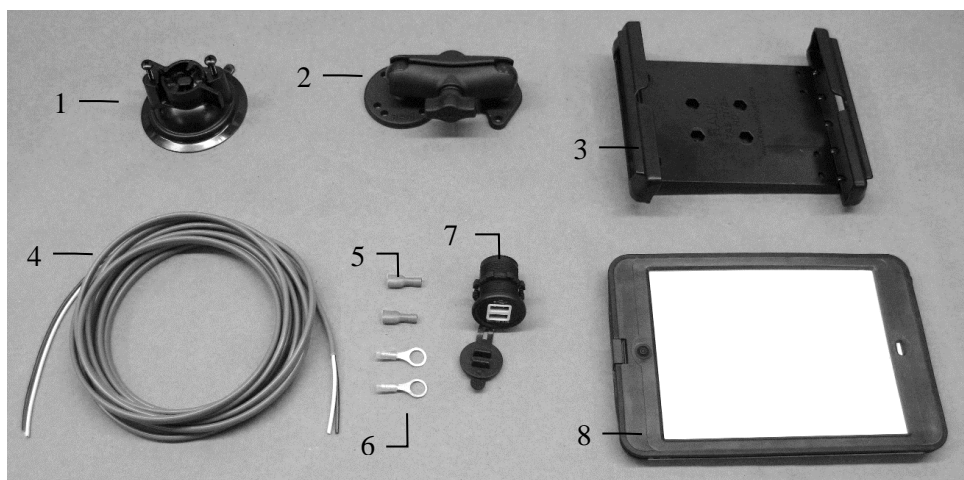
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Suction cup mount	001-2012SCM	1	7	iPad Mini Charger 12V	001-2012P	1
2	Ram mount	001-2012H	1	8	iPad Mini 4 case	001-2012C4	1
3	Spring load cradle (Mini 4)	001-2012SLC	1	9	iPad Mini 4	006-4670IP	1
4	16 gauge power wire	006-4723P	1	NP	4 Amp fuse	Hardware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

iPad Display Kit   030-4670DK
(Inc. mount kit and iPad Mini)

Mounting Kit Assembly   030-201MK
(Items 1-8 only)

Installation Instructions

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

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

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

Optional Android Display Kit (030-1670DK)
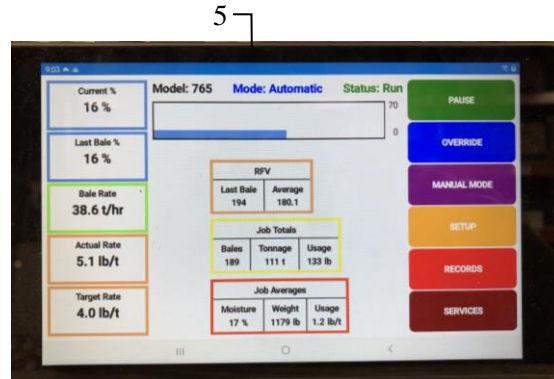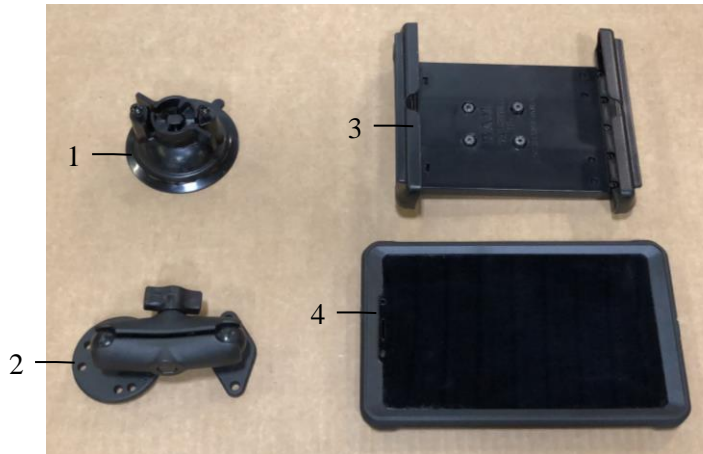
Ref	Description	Part #	Qty
1	Suction Cup Mount	001-2012SCM	1
2	Ram Mount	001-2012H	1
3	Spring Load Cradle	001-2012SLC	1
4	Android Case	001-2012A1	1
5	Android Tablet	006-1670AT	1

Installation Instructions

1. Assemble Cradle (001-2012SLC)

2. Attach round base from ram mount to cradle

3. Attach trapezoid end of ram mount to suction mount

4. Clean glass or metal surface that unit will be attaching to.

5. Add a small amount of water to suction cups rubber surface and attach to surface

6. Turn lock on suction cup mount to secure.

7. Place tablet in cradle and hook USB cable that came with system into it.

8. Run USB cable over to (006-765ICM) control module and plug into USB port that show's a tablet

Optional Harvest Tec Display Kit (030-7670DK)
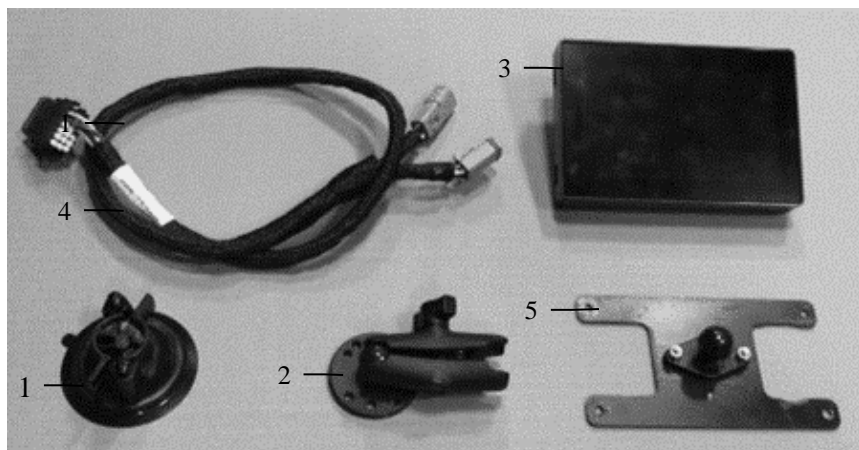
Ref	Description	Part #	Qty
1	Suction Cup Mount	001-2012SCM	1
2	Ram Mount	001-2012H	1
3	Harvest Tec Display	006-765GVT	1
4	Display Harness	006-765GH	1
5	Mounting Plate	001-700GH	1

Installation Instructions

1. Identify 006-765GH harness connection to 006-765IC tractor harness.
2. Connect harness to the Harvest Tec Display before tightening into place.
3. Tighten the mounting and display. Streamline harness, as necessary.
4. Once connected, power cycle system and ensure display is working properly.

NOTE: CANNOT OPERATE WITH BOTH HARVEST TEC DISPLAY AND BALER VT CONNECTED AT THE SAME TIME

Spray Shield 4548C
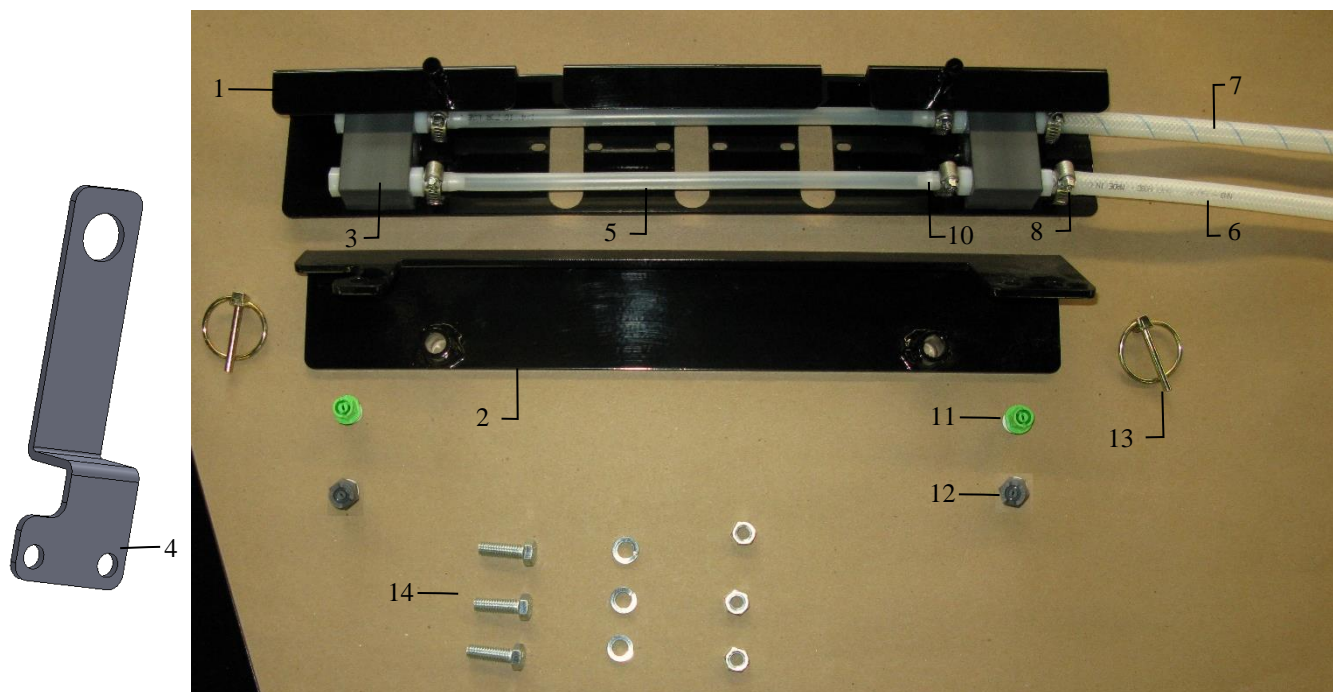
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Spray Shield	001-4435NSX	1	8	Mini Hose Clamp	003-9002	8
2	Spray Shield Holder	001-4435NKD	1	9	1/4" Hex Plug	003-F14	2
3	Spray Manifold Block	001-4435NSB	2	10	1/4" x 1/4" Straight Fitting	003-A1414	8
4	End of Bale Bracket	001-4648K3	1	11	1/4" NPT Tip	004-T8008-PT	2
5	1/4" EVA Tubing	002-9006	2	12	1/4" NPT Tip	004-T8004-PT	2
6	1/4" Braided Hose	002-9016	4	13	3/16" Lynch Pin	008-4576	2
7	1/4" Braided Hose–Blue	002-9016B	4	14	Hardware		
				NP	Rubber Washer	004-1207W	2
				NP	Female Quick Connect	004-1207H	2

*Tip color subject to change

Complete Installation Kit　　**030-4548C**
(Ref. 1-14)

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 8/22

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