

Installation Manual

Model 7U67714JCE

700 Series Preservative Applicator



HarvestTMTec

EST. 1976

Harvest Tec 7U67714JCE Installation Table of Contents

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Introduction

Congratulations and thank you for purchasing a Harvest Tec Model 700 Series Applicator for a round baler. This applicator is designed to apply Harvest Tec buffered propionic acid. Use of alternative products will result in the warranty being void and may cause complications including, but not limited to, inaccurate readings from the flow meter and damage to system components. Use of Harvest Tec buffered propionic acid is required to validate the warranty for all system components.

The 7U67714JCE Applicator kit is a UNIVERSAL KIT that can be fit to any round baler. This kit is to be installed using the INSTALLER'S DISCRETION as to the best fit and placement for system components.

The 7U67714JCE applicator kit does not include a tank or tank mounting components.

This kit requires the use of an iPad* or Android tablet using the Harvest Tec Precision Baling App- other display options may be available. Display device is not included with this applicator system.

***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 wrench set	Side & Hose Cutters	SAE sock set	Hammer
Standard screw driver or 5/16" nut driver	Crescent wrench	Drill bit set	Center punch

Tank for Applicator System

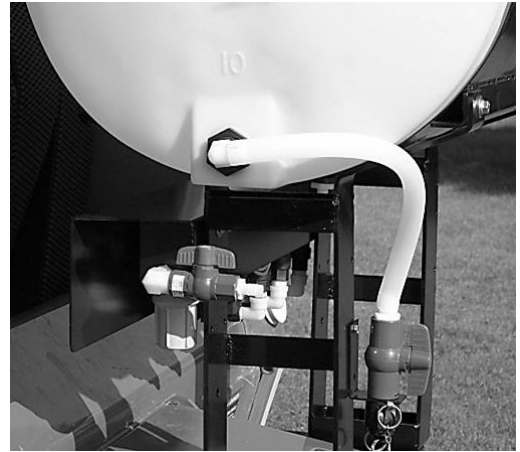
Acquisition and mounting of a suitable tank to be used with this applicator system is at the discretion of the installer. Tank must be sealed to not allow for chemical evaporation. Tank lid must have a one-way breather valve to avoid pressure buildup or tank collapse due to pump suction.

Drain-Fill Line Kit (030-0493DFK)

For Optional Addition to your Tank

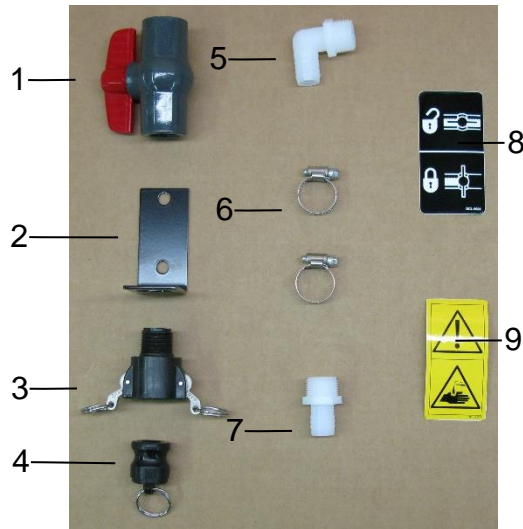
Installation

Locate Parts Bag 1 (PBA-1) and 3/4" EVA Tubing. Thread 3/4" elbow fitting (003-EL3434) into end of tank. Run the 3/4" hose from the elbow down the frame to a suitable location at 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 (001-6702H) 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 baler frame using cable locks. The drain/fill line is to be used for all filling or draining of the tank. Fill or drain tank from ground level only. Transfer Pump Kits are available from Harvest Tec to utilize the drain/fill line connections.



Parts Bag Packages & Hoses

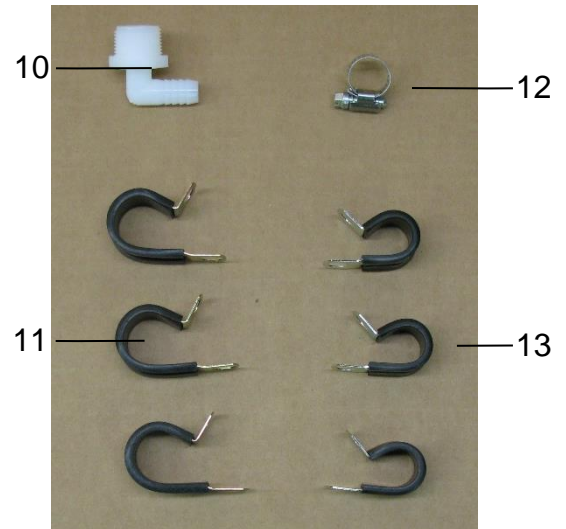
PBA-1



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

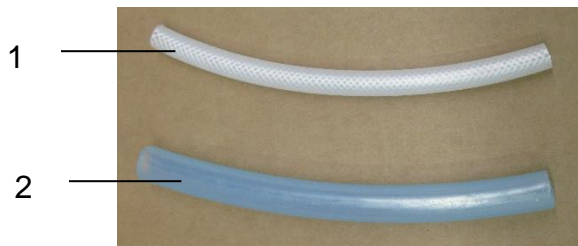
Complete Drain Fill Kit 030-0493DFK
(Inc. 10' of 3/4" EVA hose)

PBP-16



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

Round Baler Hoses



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	1/4" Hose (Solenoid to Tips)	002-9016	6ft
2	1/2" Hose (Pump to Solenoid)	002-9001	15ft
NP	3/4" Hose (Drain/ Fill Line)	002-9002	10ft

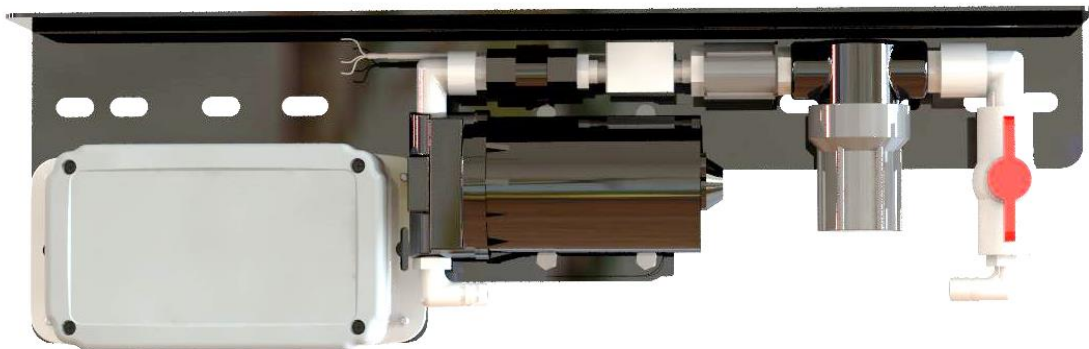
Installation of Applicator

Installation of Pump Plate Shield

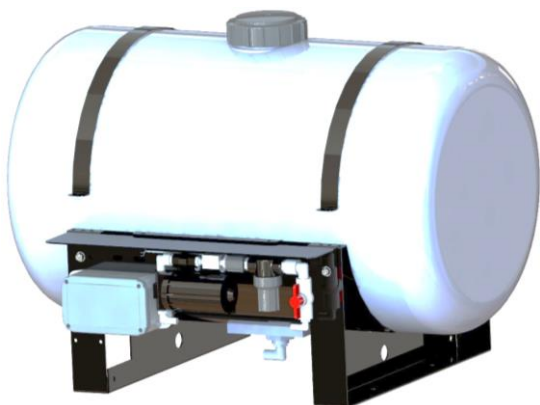
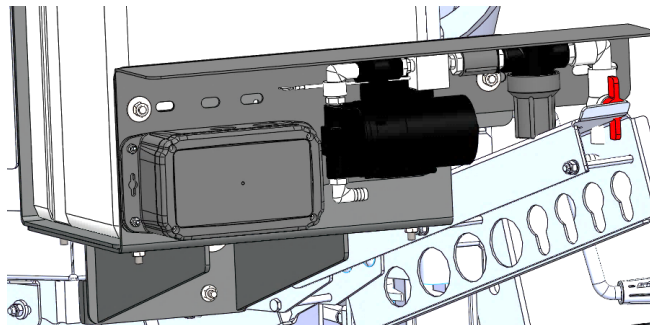
The Iso Pump Module (IPM) must be mounted to the pump plate shield. Hardware for mounting is included within the shipping carton containing the main electronics controls and harnesses.

Locate parts bag 8, and pump assembly (PMP-7636P) which comes mounted on pump plate shield. Using two 3/8" x 1-1/4" bolts, locks, and flat washers (from parts bag 8) mount the pump assembly to the tank saddle, legs or other suitable mounting surface near the front of the baler. Pump plate must be mounted horizontally, preferably at a height lower than that of the spray tank. Mounting higher than the tank supply line may cause pumping issues.

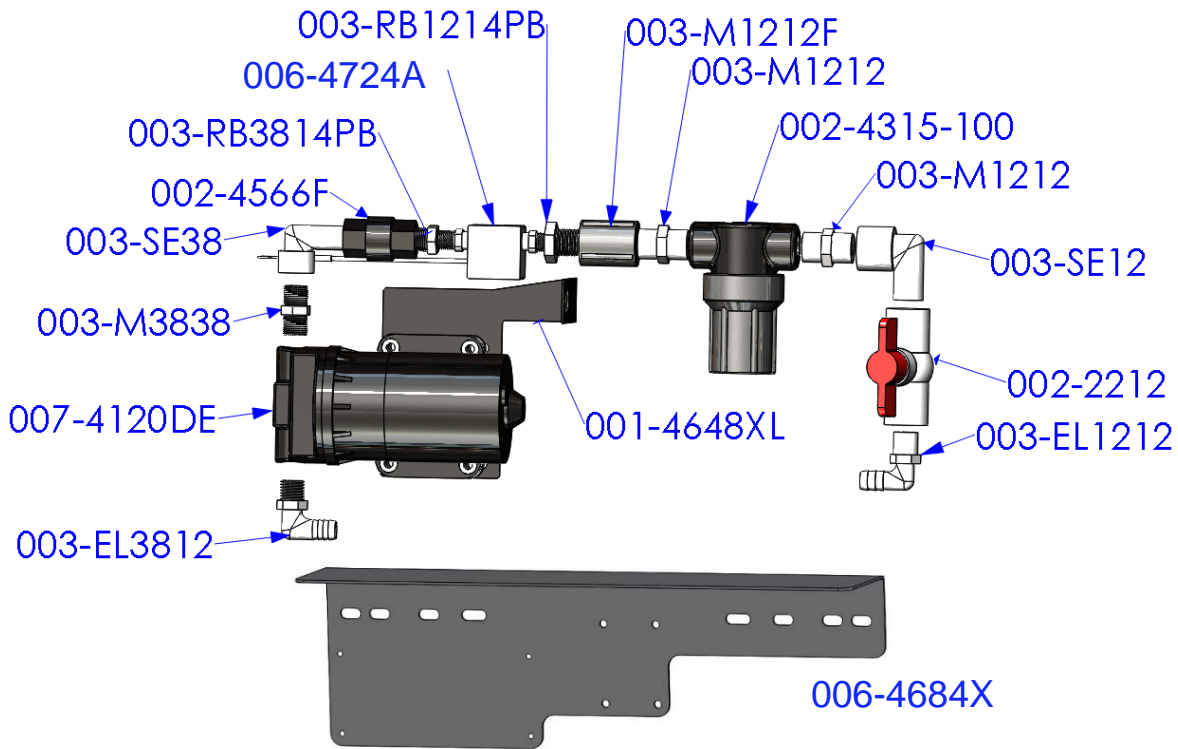
Pump Plate Assembly (PMP-7636P):



Examples of Mounted Pump Plates:



Parts Breakdown for Pump Assembly (PMP-7636P)



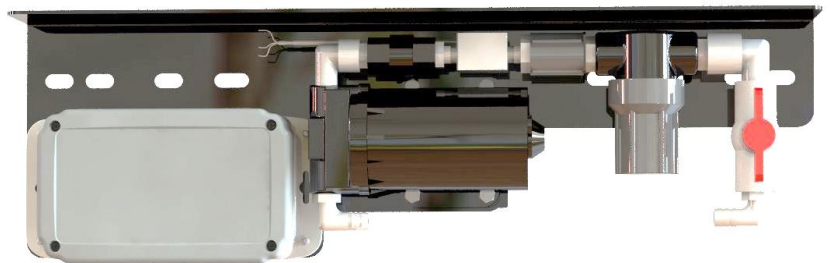
<u>Part#</u>	<u>Description</u>	<u>Qty</u>	<u>Part#</u>	<u>Description</u>	<u>Qty</u>
003-EL3812	3/8" MPT X 1/2" HB Elbow	1	003-M1212	1/2" Union	2
007-4120DE	700/300 Series Pump	1	002-4315-100	1/2" Line Strainer-100 Mesh	1
003-M3838	3/8" x 3/8" Union	1	003-SE12	1/2" Street Elbow	1
003-SE38	3/8" Street 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
006-4724A	Flow Meter-Deutsch Plug	1	001-4648X	Pump Plate Mount	1
003-RB1214PB	RB 1/2" x 1/4" Reducer	1	003-A1212*	1/2" MPTx1/2"HB (Not Pictured)	1
003-M1212F	1/2" Coupler	1	003-A3812*	3/8" MPTx1/2"HB (Not Pictured)	1

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

Filter Bowl Replacement Parts

002-4315F	Filter Bowl
002-4315D	Filter Bowl Gasket
002-4315A	Replacement Screen-100 Mesh

Completed Assembly – PMP-7636P



Spray Assembly for 7U67714JCE

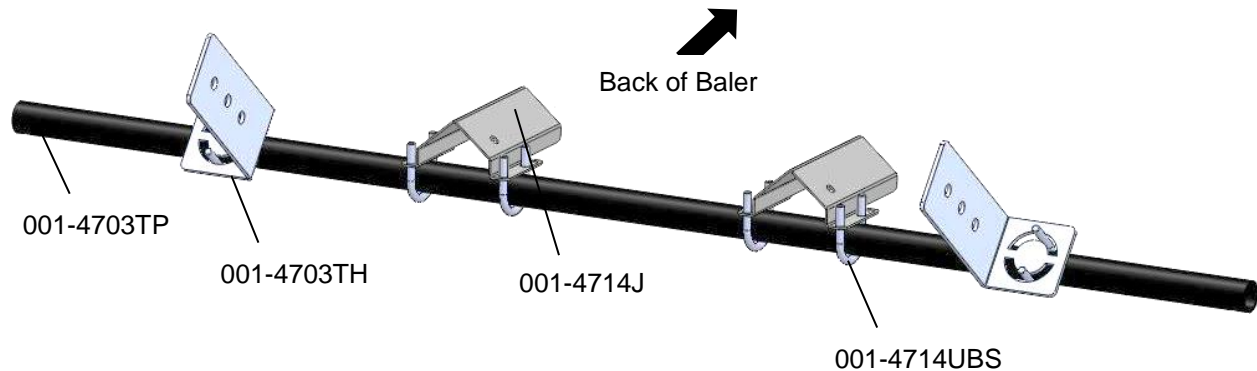
Spray Shield (030-7714J-SO)

Pipe Mounting Kit (SMK-UNIV-PIPE)

Mounting

Assemble Spray Bar

Attach pipe mounting brackets (001-4703TH) to outside edges of nozzle tube pipe (001-4703TP) using two of supplied U-bolts (001-4714UBS). Do not fully tighten U-bolts, allowing the mounting brackets to move. Attach nozzle mounts (001-4714J) approximately 3" (7.5cm) for 4' (120cm) balers to the left and right from center point of the nozzle tube (001-4703TP): This will result in nozzles being about 6" (12.5cm) apart for 4' (120cm) wide balers. Attach the nozzle mounts (001-4714JS) to the nozzle tube pipe with U-bolts and secure.



Attach Spray Bar Assembly

Position mounting brackets (001-4703TH) on the baler tongue above the pick-up, similar to as shown below in Figure 1 at approximately 45 degree angle. If your baler is equipped with a roller wind guard, the angle may need to be adjusted to allow clearance and preservative spray coverage of the incoming crop. Once optimal mounting position has been determined for your baler, drill two 3/8" (9.5mm) holes on both sides of the tongue and secure mounting brackets using four 3/8" x 1 1/4" bolts (10mm x 32mm) and hardware from Parts Bag 7. A side view of the mounting bracket and the nozzle pipe from the left side of the baler is shown in Figure 2 below. Ensure nozzle mounts (001-4714J) are pointed toward the back of baler pickup and fan spray tips spray horizontal and have upwards of a 50% center overlap and also spray to cover outer edges of pickup width.

*Ensure pickup raises and lowers without damaging spray bar assembly before securing to baler.



Figure 1

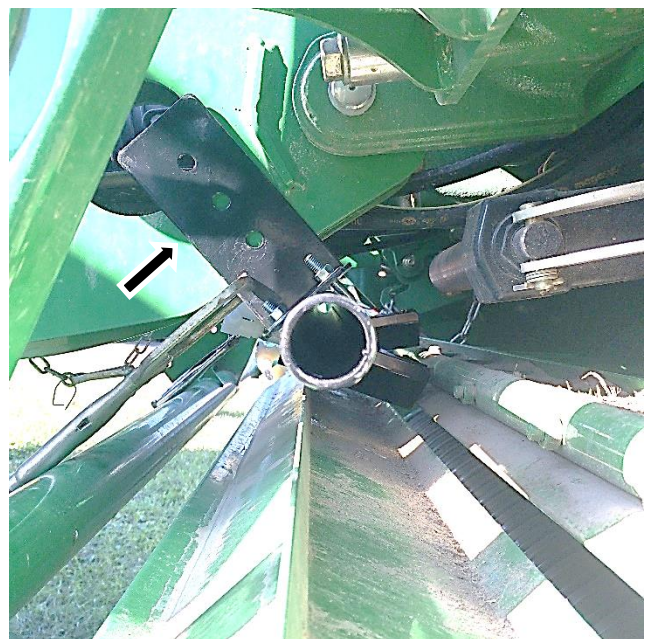
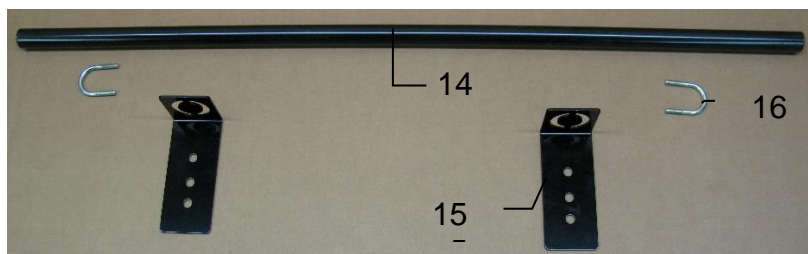
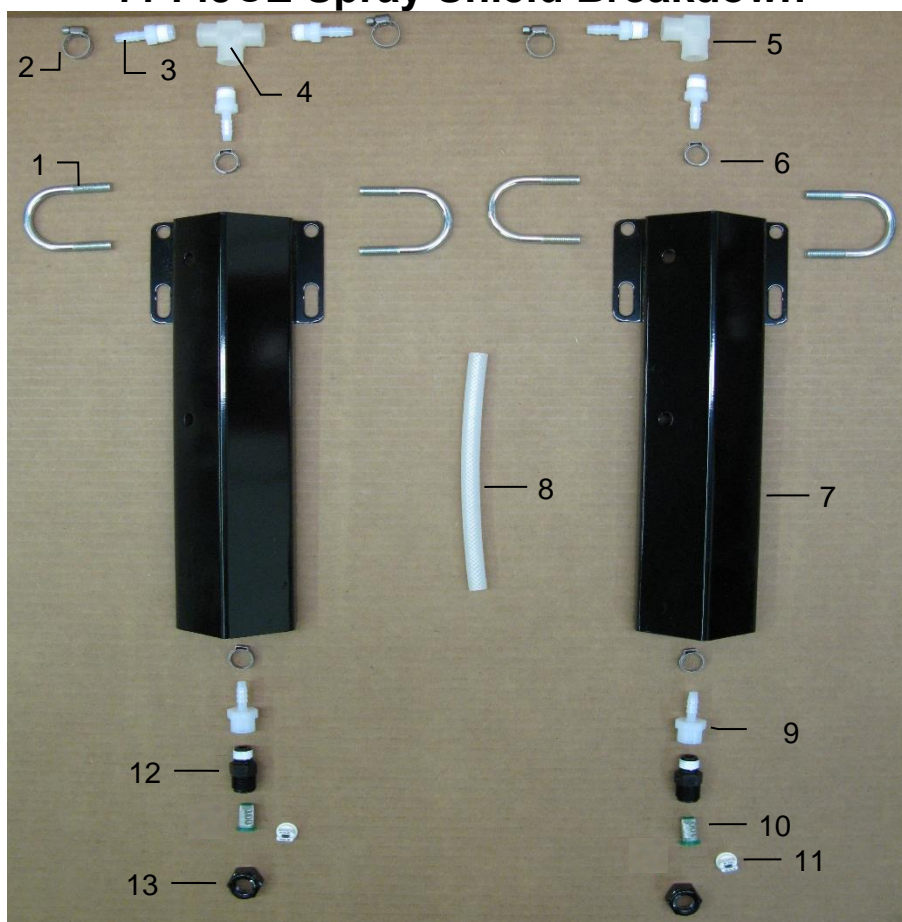


Figure 2

7714JCE Spray Shield Breakdown



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	U bolt	001-4714UBS	4
2	Hose clamp	003-9002	2
3	1/4" x 1/4" Fitting	003-A1414	5
4	1/4" Sq Tee	003-TT14SQ	1
5	1/4" St Elbow	003-SE14F	1
6	Oetiker Clamp	003-9008	4
7	Nozzle Holder	001-4714J	2
8	Hose	002-9016	3ft
9	1/4" x 1/4" Fitting	003-A1414F	2
10	Tip Strainer	004-1203-100	2
11	Tip* – White	004-XR11006VS	2
12	Nozzle Body	004-4722	2
13	Nozzle Cap	004-4723	2

<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
14	Nozzle Tube Pipe Mount	001-4703TP	1
15	Pipe Mount Bracket	001-4703TH	2
16	U-Bolt	001-4714UBS	2

*Tip color subject to change

Spray Shield Only (1-13)	030-7714J-SO
Univ Pipe Mounting Kit (14-16)	SMK-UNIV-PIPE

Plumbing, Solenoid and Tip Outputs

A. Intake Line

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 Line

Route the 1/2" hose from the pump output toward the front of the baler to connect to the solenoid assembly (SOL-3SP-A).

C. Solenoid Assembly Installation

The Pulsing Solenoid is installed at the transition from the 1/2" hosing from the pump discharge line and the 1/4" line to supply the spray nozzles. Transition should be as close to the spray tips as possible. The best suited placement for this transition is a location where the solenoid can be placed in a horizontal position in-line with the hoses and clear of the pickup and any moving parts. This location is to be determined at the discretion of the installer. (See example).

Be sure to provide ample hose length to allow for full range of motion of the pickup head if spray nozzles are mounted on pickup- too short of hose may cause hosing to pull out or break connections when pickup head is lowered.

Attach straight fitting (003-A1412) into end of 1/2" hose from the pump and secure with hose clamp (003-9003). Thread connector (004-1207G) onto fitting and place rubber washer (004-1207W) into quick disconnect (004-1207H). Connect to inlet side to the solenoid valve body (004-1207VF). Attach quick disconnect from spray nozzles/shield to outlet side of solenoid valve body, with rubber washer inside the quick disconnect.

Attach Solenoid Harness to Solenoid and route harness to connect with main baler harness. Secure Solenoid Harness to baler with zip ties away from any moving parts and pinch points.



D. Solenoid Maintenance

Check before use for any cracks or leaks in fittings- replace as necessary. The center section of valve body may need to be cleaned if solenoid does not pulsate when power is supplied by applicator. See breakdown for cleaning instructions. Components are compatible with Harvest Tec Buffered Propionic Preservative and use of other products may cause an increased need for service or replacement.

E. Standard and High Output Tips

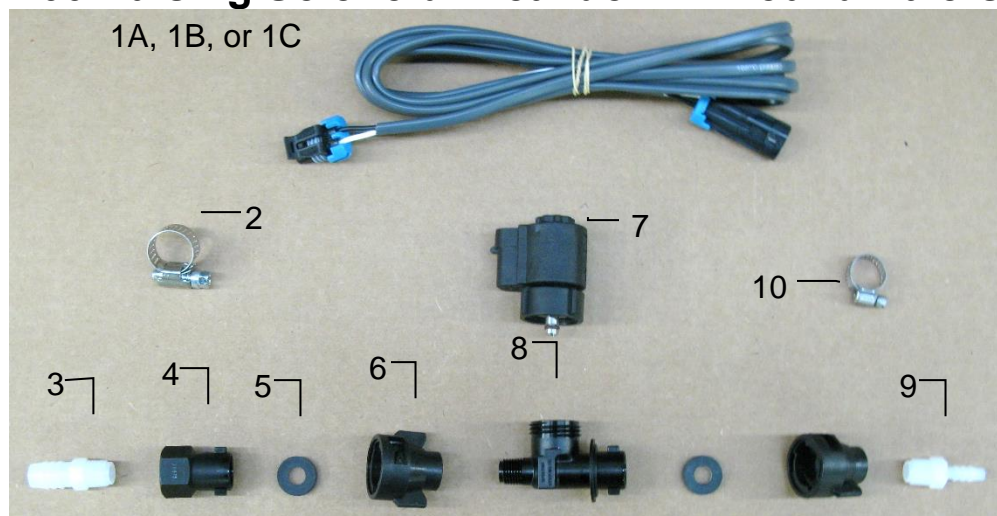
Your baler comes with a standard tip set.

- Standard tip 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).

 - *Addition of the High Output Kit (700RBHTK) is required to run the system in High tips level setting.

700 Pulsing Solenoid Breakdown - Round Balers



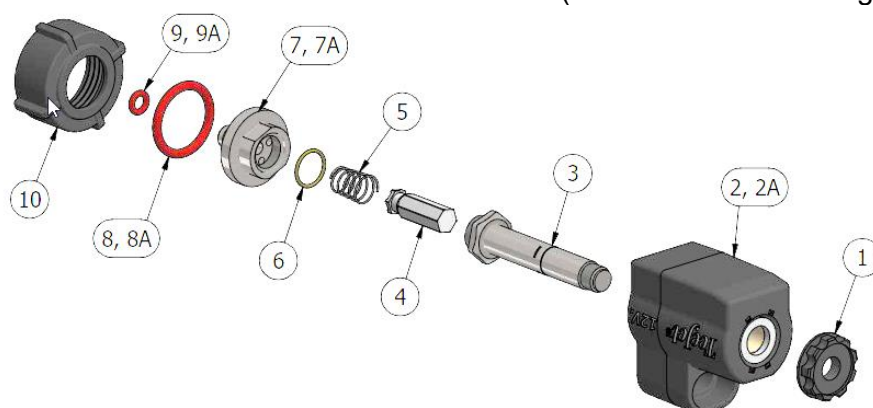
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1A	Solenoid Harness (5')	006-3650-S1		6	1/4" Female Disconnect	004-1207H	2
1B	Solenoid Harness (10')	006-3650-S2		7	Solenoid	002-2203F	1
1C	Solenoid Harness (15')	006-3650-S3		8	Solenoid Valve Body	004-1207VF	1
2	#6 Hose Clamp	003-9003	1	9	1/4" x 1/4" Straight Fitting	003-A1414	1
3	1/4"x1/2" Straight Fitting	003-A1412	1	10	Mini Hose Clamp	003-9002	1
4	1/4" Female Connector	004-1207G	1				
5	Rubber Washer	004-1207W	2				

Solenoid Packages

Complete Assembly Pkg. A	SOL-3SP-A
Complete Assembly Pkg. B	SOL-3SP-B
Complete Assembly Pkg. C	SOL-3SP-C

Expanded View of Pulsing Solenoid (002-2203F)

Replacement Pulsing Solenoid O-Ring Kit available (002-2203FG)
(Includes EPDM O-Rings 6, 8, 9 shown below)



To Clean Solenoid Valves:

The Center Section can be removed from Housing #2 by loosening #1 from #3. Once removed, use wrenches on components #3 and #7 and gently turn to loosen and separate. Soak parts #3-10 in warm soapy water, clean with a soft bristle brush, rinse with clean water to remove buildup before reassembly.

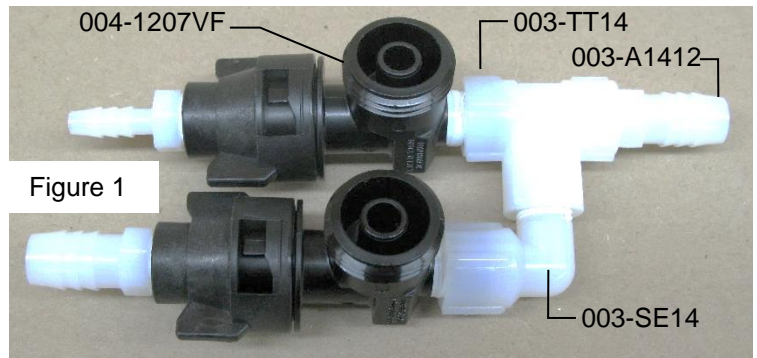
High Output Tip Kit – 700RBHTK

For Optional use with 700 Series Round Baler Applicators

Solenoid Installation

Locate solenoid on current system and connect 1/4" Tee (003-TT14) to the solenoid valve body (004-1207VF). Connect 1/4" x 1/2" straight fitting (003-A1412) to opposite end of the tee, in line with valve body. 1/2" hose from the pump will connect to this straight fitting.

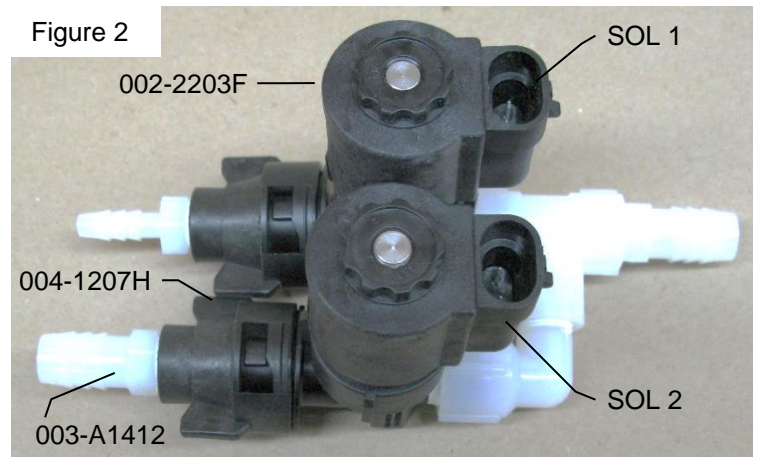
Attach 1/4" street elbow (003-SE14) to the open tee end. Connect the second solenoid valve body to the 1/4" street elbow. Connect female quick coupler (004-1207H) to solenoid valve body. Washer (004-1207W) must be properly seated inside coupler fittings before connected to solenoid valve body. Second 1/4" x 1/2" straight fitting (003-A1412) attaches to female quick coupler. Solenoid valve bodies should now look similar to Figure 1.



Attach 1/2" hose (002-9001) to the 1/4" x 1/2" straight fitting (003-A1412) from the 700RBHTK. Install the original solenoid and the new solenoid (002-2203F) to solenoid valve bodies as shown in Figure 2.

Reconnect solenoid harness (006-3650-S2) to the original solenoid (SOL 1). Ensuring that the opposite end of the harness is connected to the 'Sol 1' connection on the baler harness.

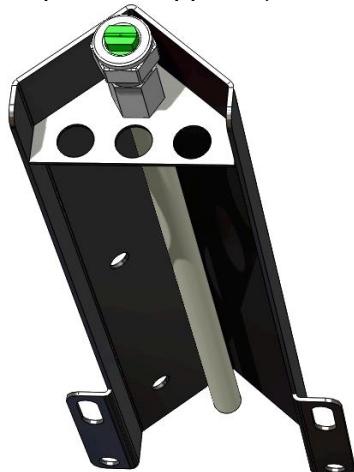
Connect solenoid harness (006-3650-S2) from 700RBHTK kit to the new solenoid (SOL 2) and connect the opposite end to the 'Sol 2' connection on the baler harness.



Tip Installation

***Note:** The 700RBHTK containing parts to fit all styles of US round baler 700 Auto Applicator kits for North America. Not all tip components of this kit will be used with the 7U67714JCE Applicator Kit. Add the additional high output tip (001-XR11008VS) assembly into the additional mounting holes on nozzle brackets (001-4714J). Replace original system tips with supplied (001-XR11004VS) tips.

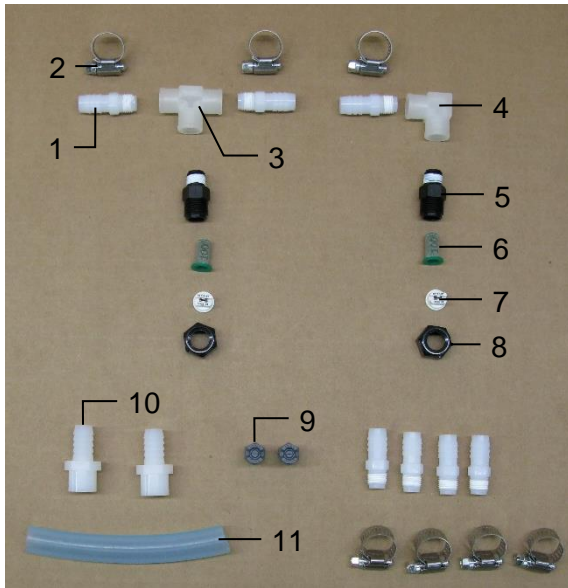
Standard
Nozzle



High Output
Tip Kit Nozzle



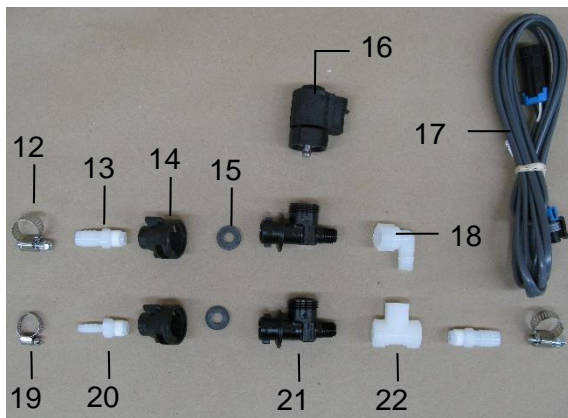
Optional High Output Tip Kit 700RBHTK Breakdown



<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
NP	Low Output Tip – Red*	004-XR11004VS	2
8	Nozzle Body Cap	004-4723	2
9	High Output Tip*	004-T8008-PT	2
NP	Low Output Tip*	001-T8004-PT	2
10	1/4" x 1/2" Sq Fitting	003-A1412F	2
11	1/2" Hose	002-9001	6ft

*Tip colors subject to change

High Output Solenoid (Included with 700RBHTK 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

Moisture Sensor Kit

General Installation – 7U67714JCE Applicator Kit

Some factory moisture discs may be used with the Harvest Tec system as long as they are fully insulated from the baler (no metal on metal contact) and attach to the baler with a single bolt. Factory moisture system wires must be disconnected from both moisture sensor discs and taped up. The balers factory moisture system wires and the Harvest Tec moisture wires cannot be connected to the moisture discs at the same time. If no factory moisture discs are installed, follow the installation instructions for Harvest Tec Moisture Sensor Discs below.

Two moisture disc assembly options are included with this universal applicator kit (030-4643 or 030-4643C). Only one set of sensor disc assemblies will be used. Choose the best suited discs to fit your baler.

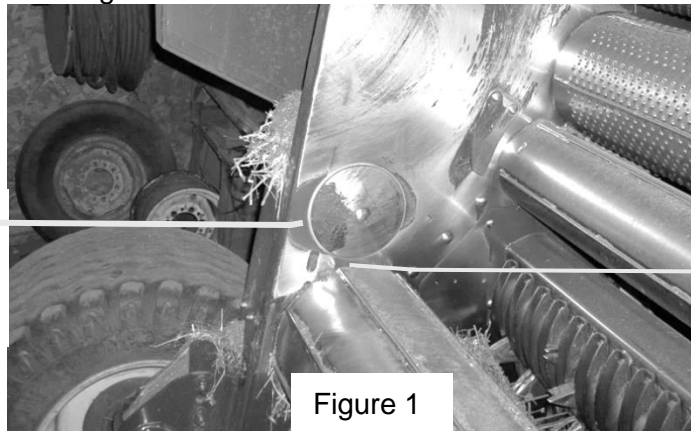
Moisture disc assemblies must be mounted one on each side of the baler, directly across from each other.

Round moisture disc assembly (030-4643) have etched markings to follow if cutting modification is needed. Curve of moisture disc assembly (030-4643C) may be modified to adjust size of curved cutout, if needed. Plastic insulating discs should protrude 1/4" (7mm) wider than the modified sensor discs. Taper edges of modified discs and plastic pad to allow crop to smoothly pass over disc assembly.

General Installation Instructions:

1. If your baler is equipped with bale shaping pads: Remove pads and drill out existing hole to 3/4" (19mm) to install of new moisture sensor discs. Grind welds off to remove shaping pads if they are welded to baler.
2. If your baler is not equipped with bale shaping pads: Use moisture disc plastic pad (006-4641F/FX) as a template mark where to drill a hole in the chamber directly behind and above the starting roll (Figure 1).
Note: before drilling make sure you are not drilling into sensitive equipment on the outside of the baler.
3. The mounting hole will be 3/4" (19mm) in diameter. The bottom edge of the pad will be placed 1" (25mm) up from starting roll and generally 2" (51mm) from the back of the bale chamber (Figure 1). Example pictures of various mounting options are shown on next pages.
4. Depending on the baler carriage bolt, plastic grommet (006-4641G) and plastic washer (006-4641I) may need to be trimmed for proper fit. Plastic grommet has etched marking to cut a 1/4" (6mm) section for use if needed to insulate bolt when passing through bale chamber wall.
5. Route the moisture wire harness (006-7307RB1 or 006-7307RB2) from pump plate area to each disc and securing with cable ties. Secure harness clear from moving parts, chains and potential pinch points.
6. Install sensor disc assembly using carriage bolt with the following hardware order: moisture sensor disc, plastic disc pad, plastic grommet, plastic washer, washer, lock, nut, washer, moisture harness eye loop, washer, lock and nut.
7. Make sure that plastic insulators are protecting all surfaces of the disc and bolt from touching baler metal. Test for grounding using volt meter- moisture disc should be insulated and not ground out to bale chamber.
8. Tighten all of the hardware to 50 ft/lbs (68 N/m).
9. Cut off excess carriage bolt length after disc assembly installation is completed.
10. Option: Apply silicone layer over nuts and washers to keep moisture and debris away. Debris or moisture buildup may result in a grounding connection to baler frame which will result in a high moisture readout.

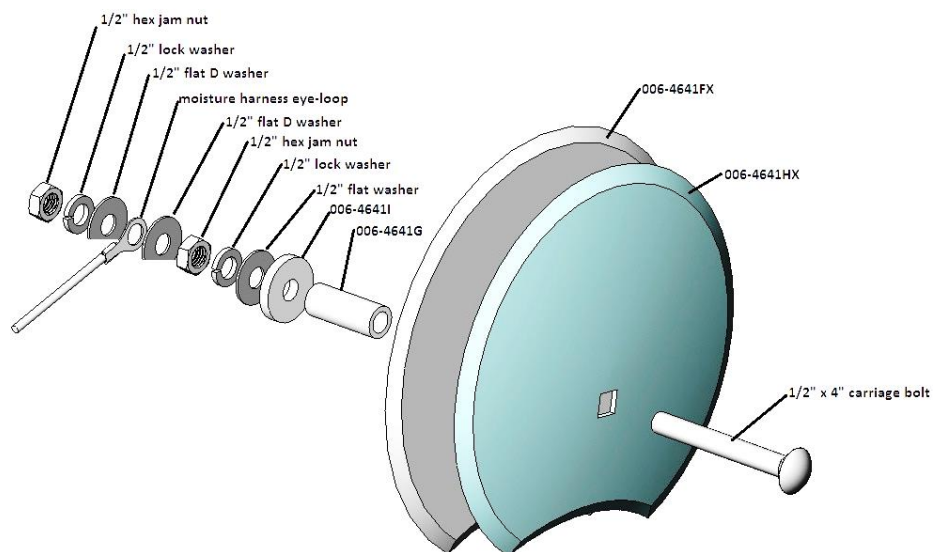
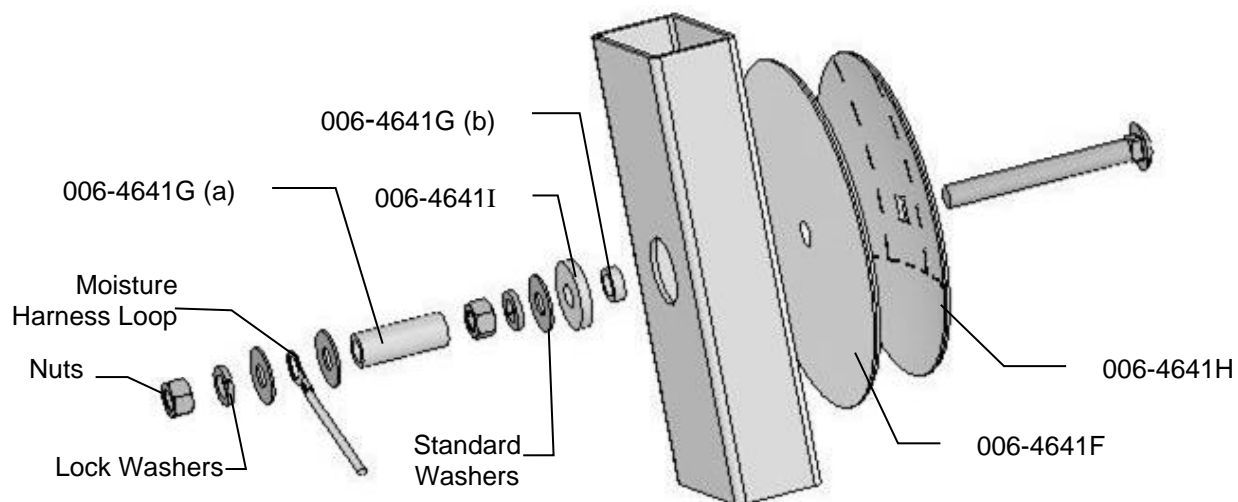
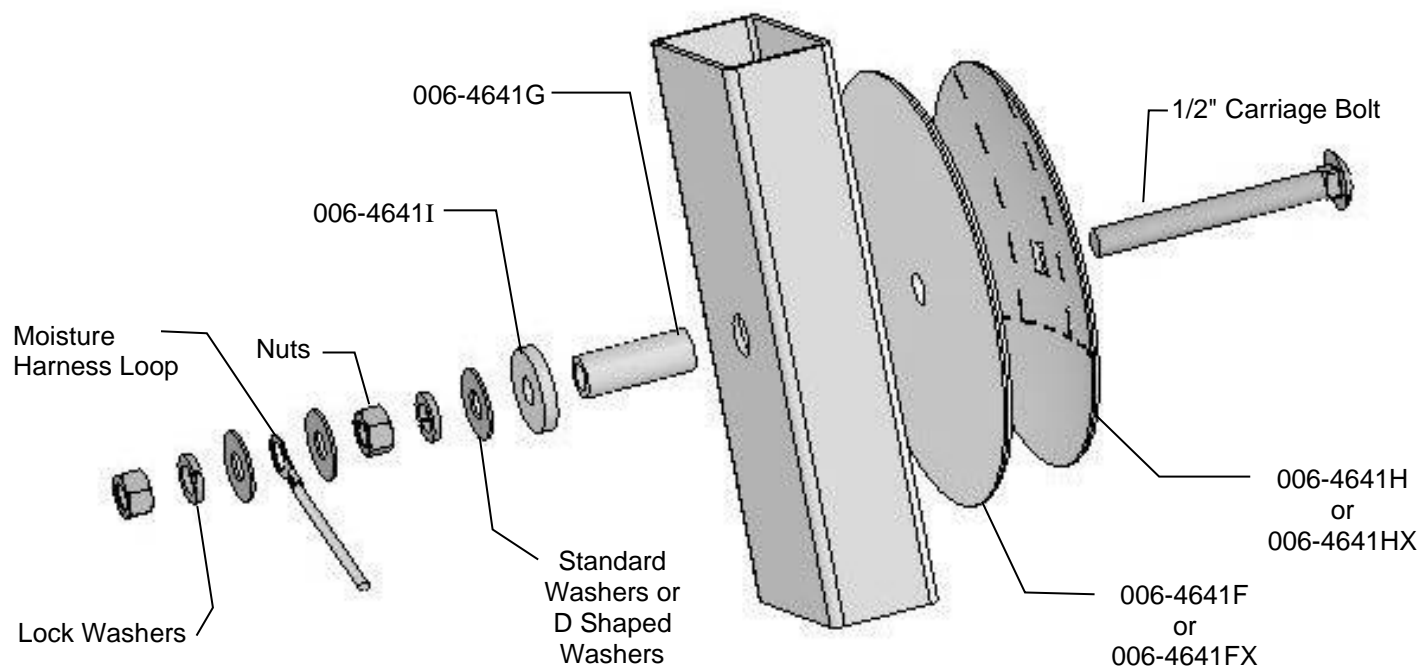
2" from back of
chamber
(51mm)



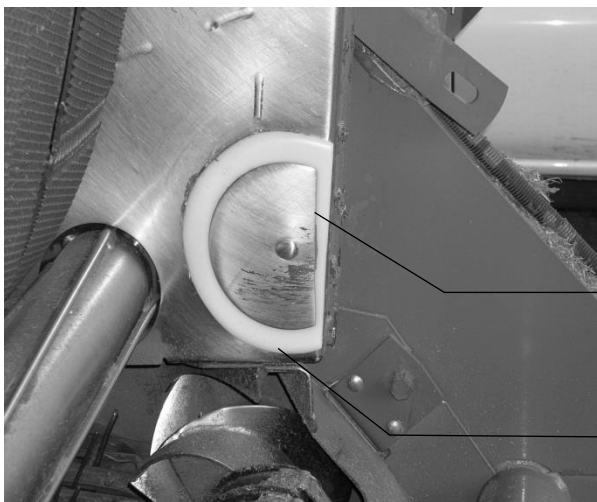
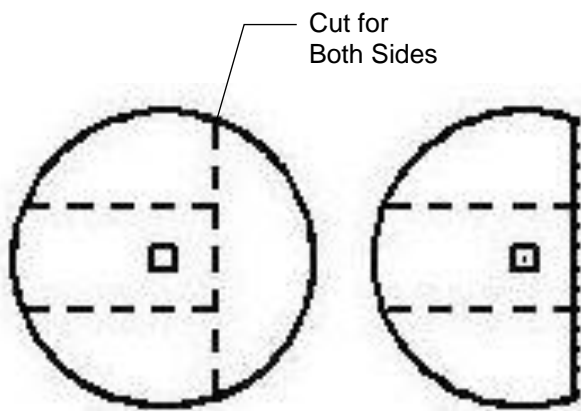
1" from top of
roll
(25mm)

Figure 1

Example Moisture Disc Assembly Diagrams:

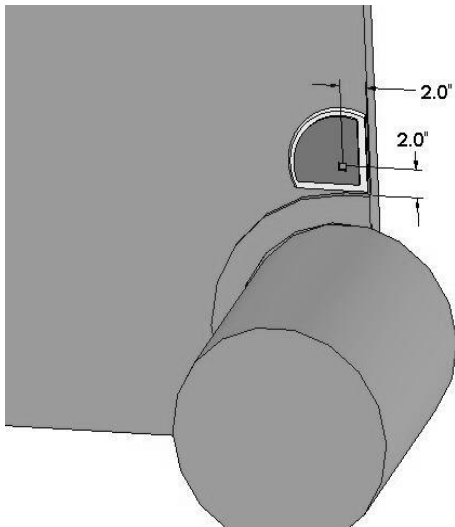
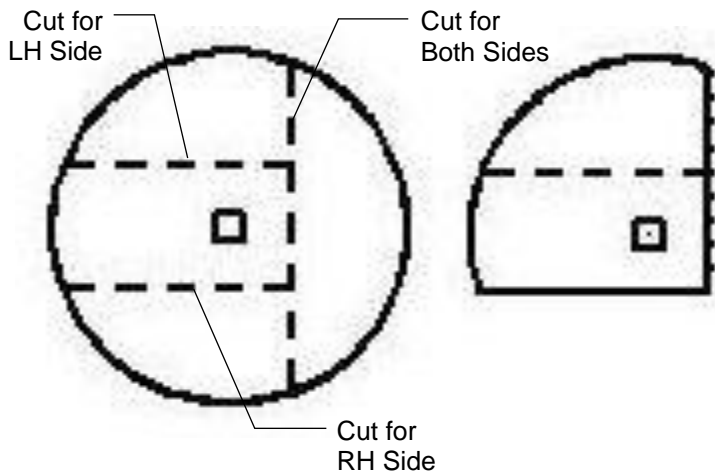


Examples of Moisture Disc Mounting:



1/4" in from
back of baler
(7mm)

1" from Bottom
(25mm)



Examples of Moisture Disc Mounting (continued):

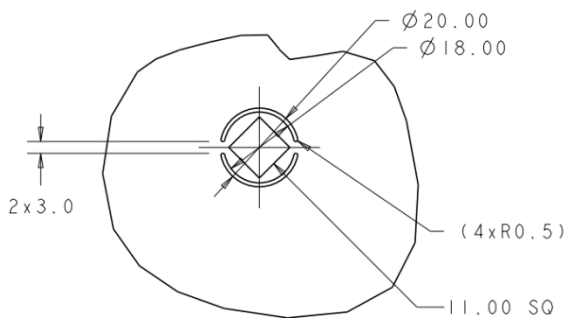
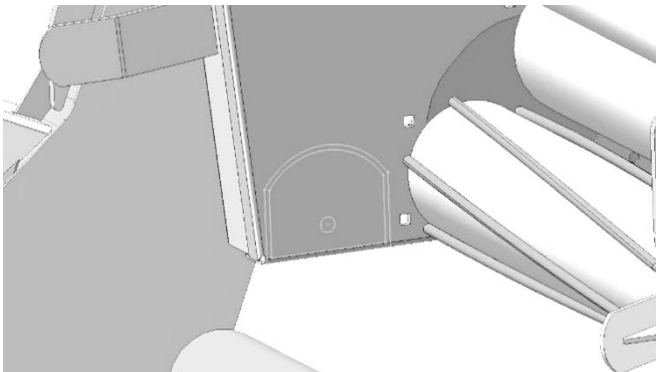
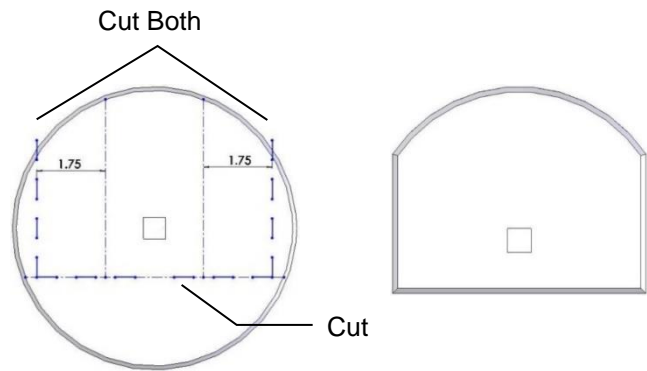
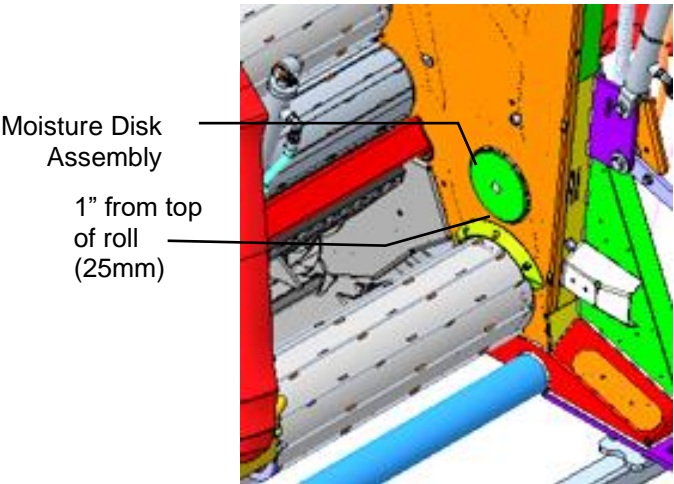
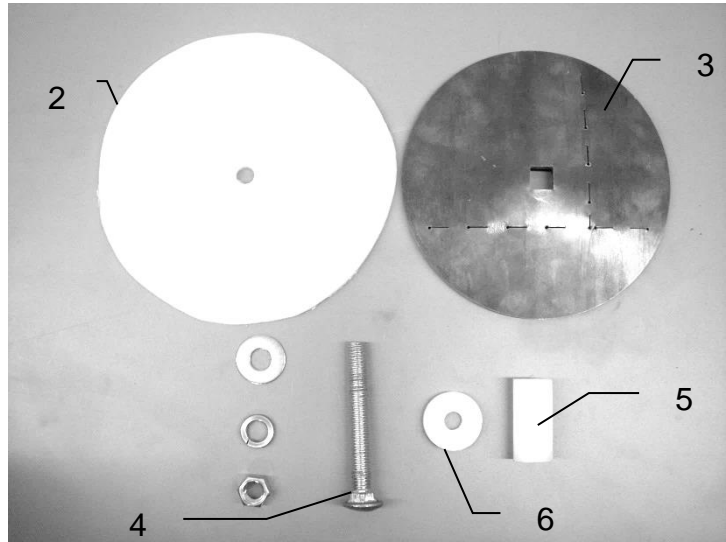


Diagram of bale chamber pry-out found with some baler models



Moisture Sensor Kit Breakdown

(MSH-7RB-A) Round Discs

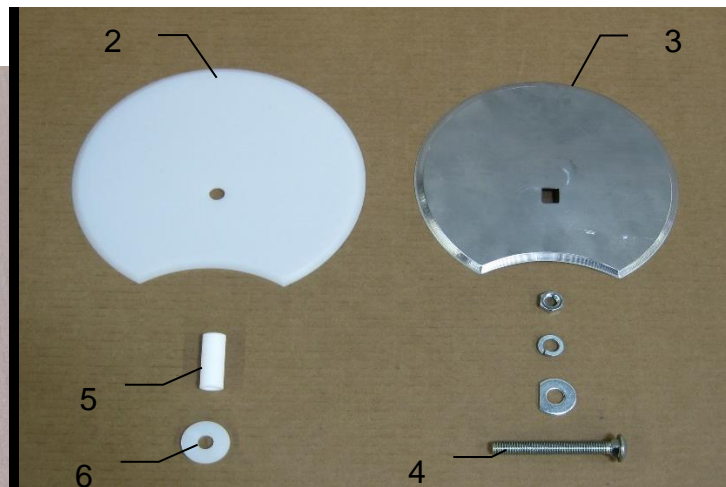
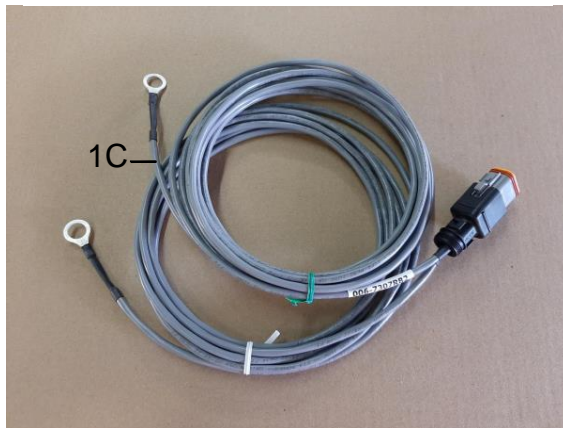


Ref	Description	Part #	Qty
1A	Moisture Harness (both cables 15')	006-7307RB1	1
2	Isolator Pad	006-4641F	2
3	Moisture Disc	006-4641H	2

Ref	Description	Part #	Qty
4	1/2"x4 1/2" Carriage Bolt, Nut and Washers	Hardware	2
5	Sensor Bushing	006-4641G	2
6	Plastic Isolator	006-4641I	2

Replacement Disc Assembly (qty 1 of each Ref 2-6) 030-4643
Complete Assembly A (Ref 1-6) MSH-7RB-A

(MSH-7RB-C) Shaped Discs



Ref	Description	Part #	Qty
1C	Moisture Harness (both cables 15')	006-7307RB1	1
2	RB Isolator Pad	006-4641FX	2
3	RB Moisture Pad	006-4641HX	2

Ref	Description	Part #	Qty
4	1/2" x 4 1/2" Carriage Bolt Nut, and Washers	Hardware	2
5	Sensor Bushing	006-4641G	2
6	Plastic Isolator	006-4641I	2

Replacement Disc Assembly (qty 1 of each Ref 2-6) 030-4643C
Complete Assembly C (Ref 1C-9) MSH-7RB-C

End of Bale Sensor Kit (EOB-7RB-A)

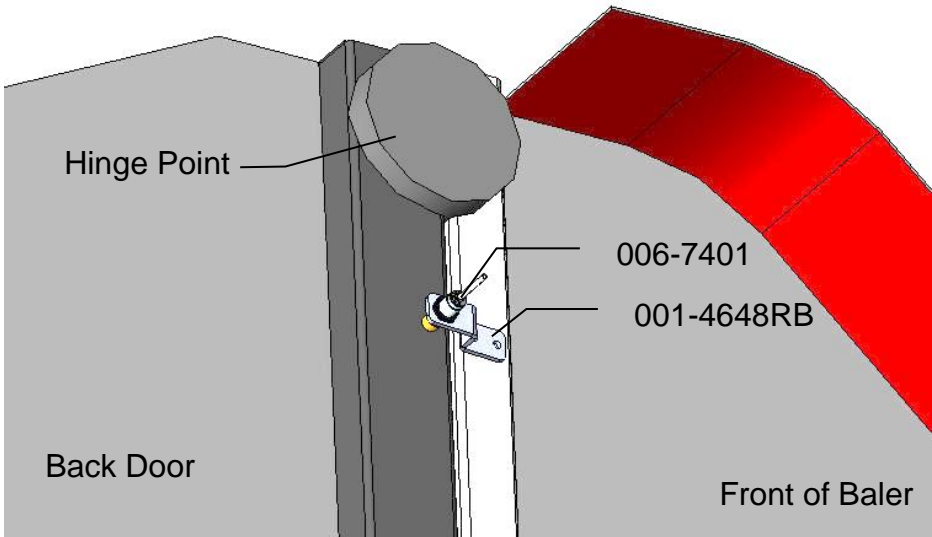
The bale rate timer sensor is used to determine when the baler door is open. With this information the system is able to change the tons/hour automatically (see Operating Instructions, Automatic Mode).

Installation -most Round Balers

Locate proximity sensor (006-7401) and the sensor bracket (001-4648RB). On the right side of the baler locate a suitable location approximately 1”– 6” down from the hinge to mount the bracket. *Alternate locations may be needed depending on baler- choose a suitable location clear of moving baler components.* 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.

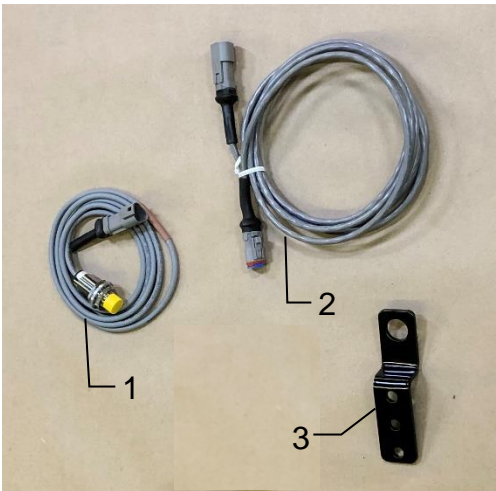
Mark and drill two 1/4” (7mm) holes and install the bracket using two 5/16” x1/4” self-tapping bolts. Install proximity sensor into the bracket, leaving 1/4” (7mm) of clearance between the yellow end of the sensor and the door when door is closed.

Route the harness towards the End of Bale (EOB) plug connection on the main baler harness. EOB extension cable 006-7401EXT may be used. Secure with cable ties and take care to avoid pinch points.



View of the right side of baler

End of Bale Sensor Kit (EOB-7RB-A)



Ref	Description	Part #	Qty
1	End of Bale Sensor	006-7401	1
2	EOB Extension	006-7401EXT	1
3	End of Bale Bracket	001-4648RB	1

Complete AssemblyEOB-7RB-A

Main Wire Harness and Connections

Route harness (006-763B) along the draw bar towards the IPM location on the baler. Keep harness away from pinch points, moving parts and hydraulic hoses. Secure with existing cable clamps or use cable ties. Once all sensor connections are made to the harness, connect to the IPM module. Locate suitable locations on the baler to secure any excess harness lengths and sensor wires- shortening or modification is not recommended and will void system warranty.

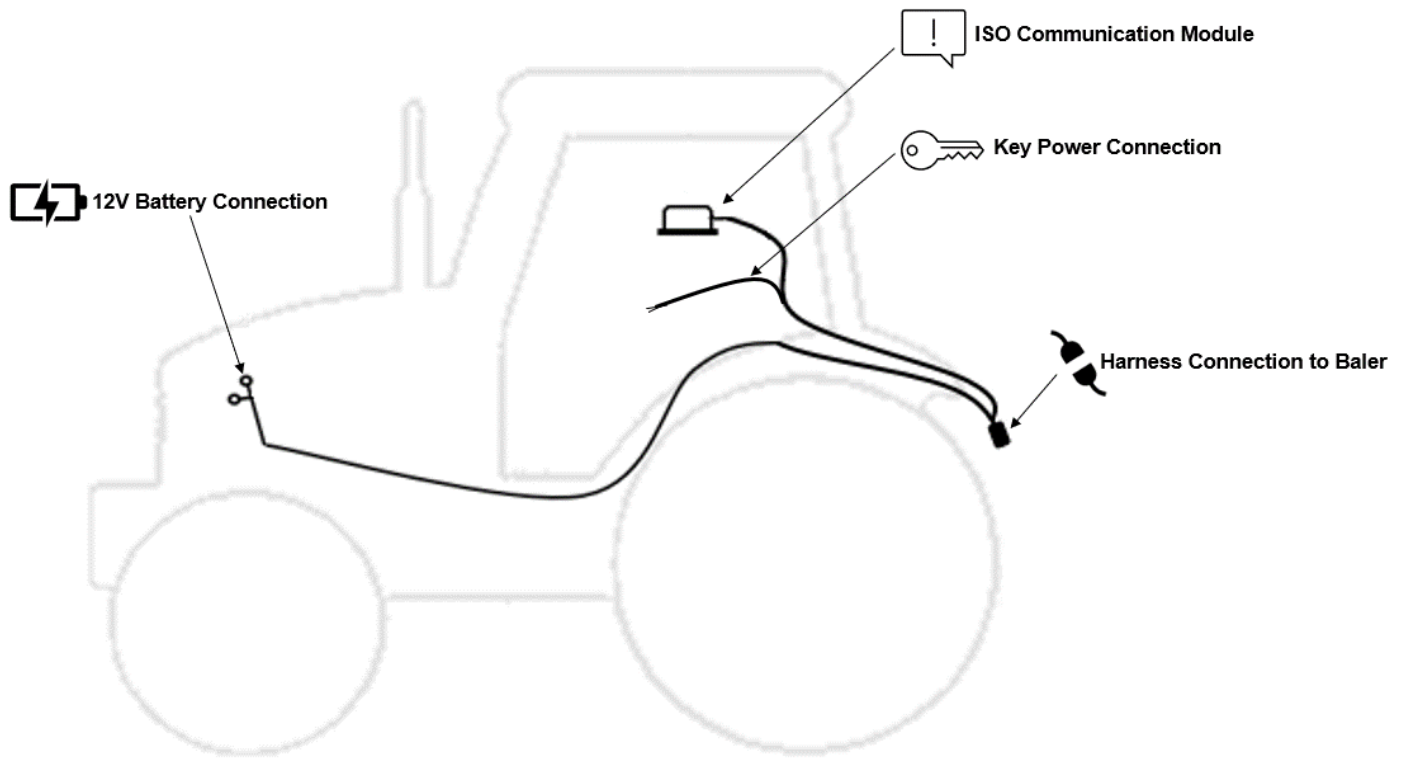
Main Control Box and Wiring Harnesses (030-763CPA)



<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	Baler Harness - 20'	006-762B	1	NP	120 Ohm Resistor	006-700R*	1
2	Tractor Harness	006-765IC	1	NP	Dust Plug Kit	006-765DP	1
3	Key Switch Wire	006-765CPH	1				
4	ISO Pump Module (IPM)	006-7671RB	1	NP	Lightning to USB-A Communication Cable	006-6672USBC	
5	ISO Communication Module (ICM)	006-6673	1	NP	Optional USB-C to USB-A Communication Cable	006-6672USBX	

*006-700R installation on 006-762B harness is required at all times when operating the small square 700 series applicator

Tractor Setup



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



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. 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 006-765VA or integration harness is required when equipped. 006-770R Terminator must be placed on only one CAN/IDM port on the baler harness.

Optional Tablet Display



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). Recommended to use a quality communication cable to connect with the IIC- adapters are not supported. 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.

Required to be running a current supported iOS operating system.

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

Optional Harvest Tec Display Kit (030-7670DK)



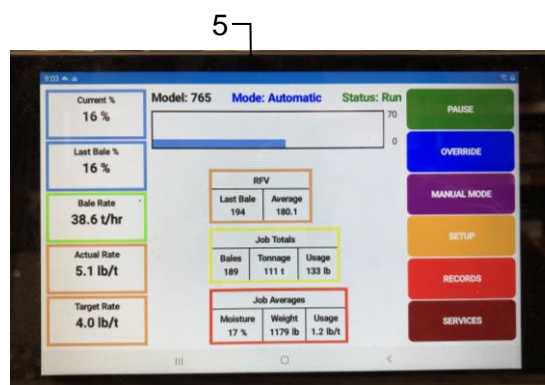
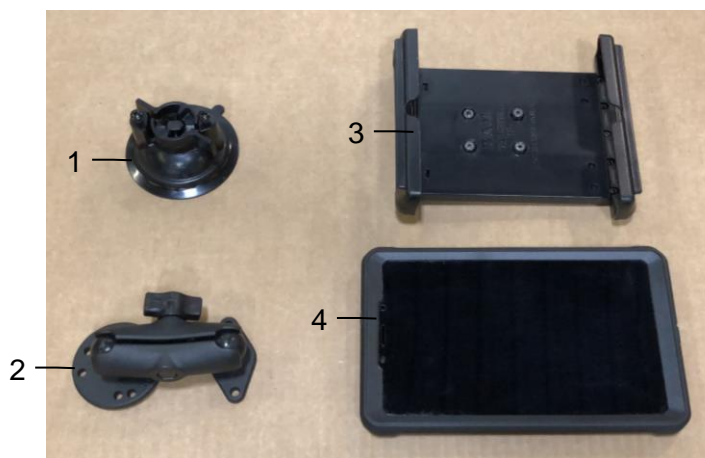
Installation Instructions

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
NP	700 Series Resistor	006-700R	1

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

NOTE: CANNOT OPERATE APPLICATOR SYSTEM WITH HARVEST TEC DISPLAY AND BALER ISO INTEGRATION or TABLET/ iPad AT THE SAME TIME.

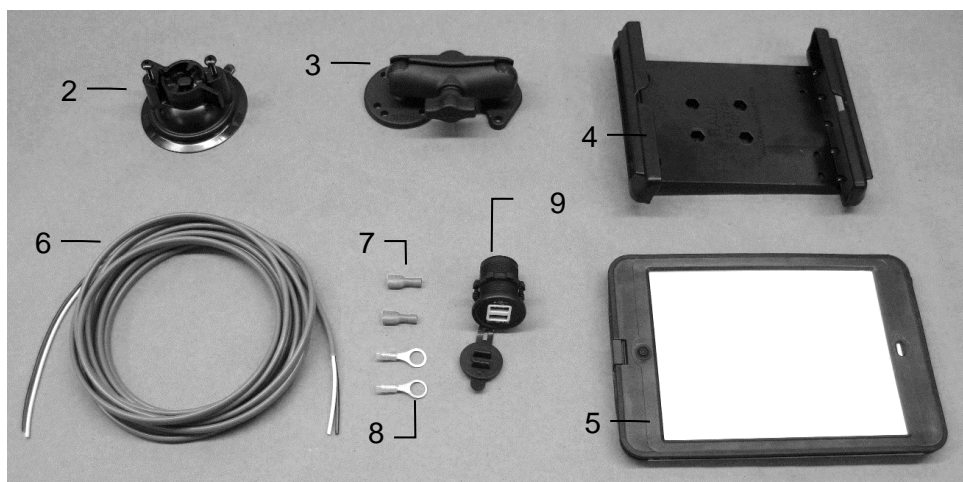
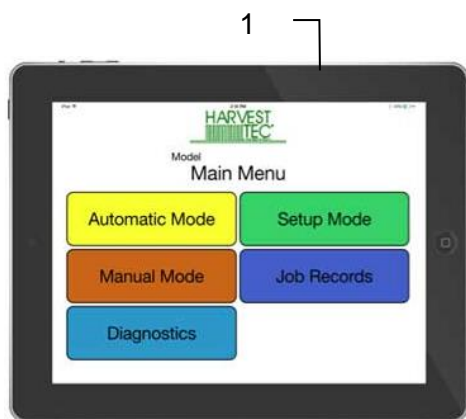
Optional Android Display Kit (030-1670DK)



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
NP	USB-C to USB-A Cable	006-6672USBX	1

Note: Use a quality communication cable ending with a USB-A connection to connect tablet to (006-765ICM) control module - plug into the USB port showing a tablet.

Optional iPad Display Kit (030-4670DK)



Ref	Description	Part #	Qty		
1	iPad Mini 4 (Refurbished)	006-4670IP	1	Complete iPad Mini Kit	030-4670DK
2	Suction Cup Mount	001-2012SCM	1	(Includes 1-5 and Comm. Cable)	
3	Ram Mount	001-2012H	1		
4	Spring Load Cradle	001-2012SLC	1	Mounting Kit Only	030-2014MK
5	iPad Mini 4 Case	001-2012C4	1	(Includes all parts <u>except</u> iPad Mini 4)	
NP	Lightning Comm. Cable	006-6672USBC	1		
6	Power Harness	006-4723P	1		
NP	4 amp Fuse	Hardware	1		
7	Female Spade Connector	Hardware	2		
8	Eye Loop Connector	Hardware	2		
9	iPad Mini Charger 12V	001-2012P	1		

12V Power Harness Installation Instructions (included with Mounting Kit Only)

1. Identify 12V power source for wires to connect.
2. Eye loops installed on harness 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 if needed for key power connection.
5. Harness comes with quick connectors the white and black wires.
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.

Optional ISO Display Adapter (006-7670A)
For use with a dedicated ISO display

The 700 Series Applicator has the option to tie into compatible dedicated ISO monitors by utilizing the diagnostic port. When connected, the Harvest Tec System will populate as its own object pool within the ISO display. When this object pool is selected, the ISO monitor will then function as a dedicated monitor for the Harvest Tec System.

**The Harvest Tec System will function as a stand-alone system with the 006-7670A adapter.
System will not integrate with the ISO system software using this adapter.**

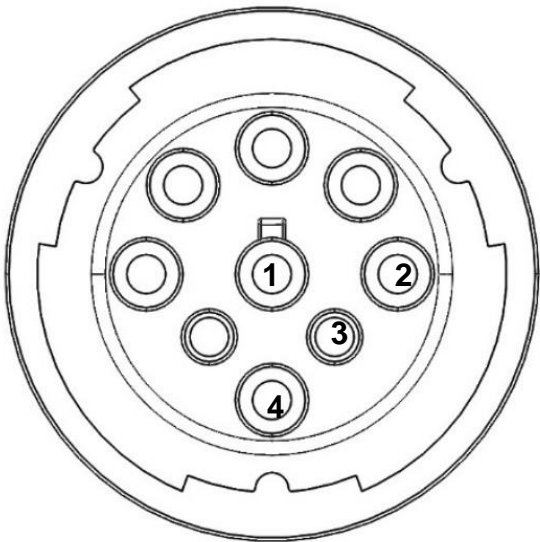
Any tablet connected to the ICM module must be disconnected from the ICM before the Harvest Tec program screen will activate within the ISO display.

To connect adapter 006-7670A, unplug the 4-pin 006-765CPH Key Power Plug connection from the 006-765IC Tractor Harness and replace with the plug from the 006-7670A Adapter. Connect the round plug end of the 006-7670A Adapter to the Tractor ISO Display Diagnostic port.

Scan the QR code to view a short video for the 7670A Adapter Harness for ISO Display:



For additional product and service information:
See our YouTube Channel <https://www.youtube.com/@harvesttec>



Pin 1	Black	Ground
Pin 2	Yellow	CAN High
Pin 3	Green	CAN Low
Pin 4	Red	12V+ Key Power

Crop Eye Forage Indicators (030-0474C)

Note – the following Crop Eye Forage Indicator Kit (030-474C) installations are followed for common balers in North America. Use these as guidelines for other brands of balers. Ensure the crop eye harness does not stretch at the baler pickup pivot point.

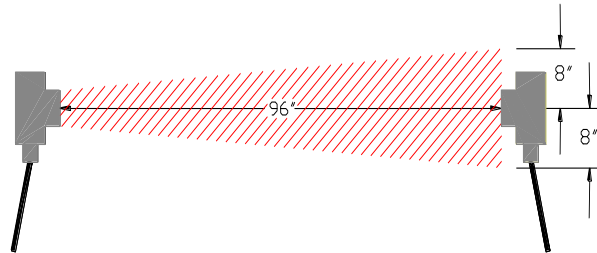
General Mounting Guidelines

Caution: Unhook the pump leads when testing, aligning, or working around the hay indicator sensors or nozzles. The nozzles will spray if someone or something comes in front of the sensors when the applicator is turned on. Failure to do so may cause injury.

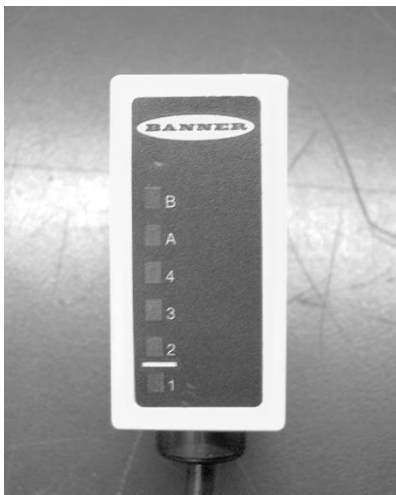
The hay indicator kit is designed to automatically pause the applicator when no hay is entering into the machine. The hay indicator kit will restart the applicator when hay again enters the pickup. Two photoelectric sensors are mounted to the baler pick-up head in alignment directly across from each other, sensing when hay is entering the machine. Sensors need to be kept clear of obstructions with pickup head up or down.

Obstructions can be one or more of the following:

1. Wind guard blocking the sensor beam when the pickup head is moved up or down.
2. Sensors are located too close to preservative nozzles: spray drift from the nozzles can attract dust and leave residue which will falsely trip the eyes.
3. When positioning the sensors: consider where forage could have tendency to wrap up on the sides of the pickup head.
4. Pick-up tines/teeth will **NOT** normally trip the sensors. However, if tines become out of alignment, they could stagger enough to cause the hay indicator to trip. If possible mount the eyes in front, above, or behind the teeth to eliminate the problems from bent pick-up teeth.



Alignment of the Sensors

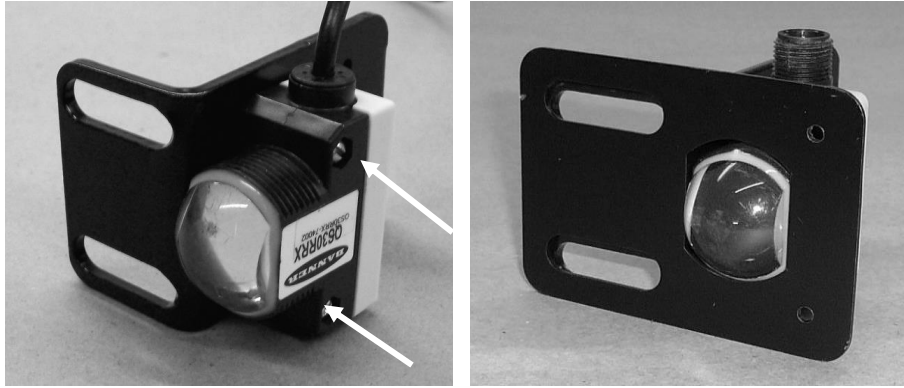


The hay indicators have a built in alignment scale on one the sensors. When the sensors have power to them the letter A will light up and one of the corresponding numbers will also have a light on next to it. The higher the number that is lit the better the alignment is between the two sensors.

The sensors will need to be adjusted until the number 3 light is showing. Aligning to level 4 is not necessary for the application system. Once this alignment is made tighten down all hardware to prevent movement of sensor.

Sensor Mounting Brackets

Hay indicator mounting bracket can be used in different combinations to match up to your specific baler. The best mounting locations will use either existing bolt heads on opposite sides of the chamber or holes drilled through the baler's sheet metal facing each other. Make sure the sensors locations are properly aligned, by using a long straight edge that spans the width of the head, such as a PVC pipe. Position the long straight edge so that it is perpendicular to the surface being used to mount the sensors as well as level to the horizontal (or a flat floor). Use a level to serve as a gauge.



Option 1



Option 2

Option 3

The three most common mounting points for the hay indicator are shown above. Take note of the differences for mounting on your specific baler.

Option 1

Use the two mounting screws supplied with the sensors to attach sensor and bracket together. This mount will require a hole to be drilled in the sheet metal for the sensor to see through, and one or two holes to be drilled (depending on the baler) for the bracket to attach to the baler.

Install the trash plate between the eye and the baler sheet metal to prevent chaff from building around the eye (**only on balers when a 1-1/4" hole must be drilled**).

Option 2 & 3

Connect the sensor to the baler using the 2 plastic nuts supplied in the kit. The mount will require one or two holes to be drilled (depending on the baler) for the bracket to attach to the baler.

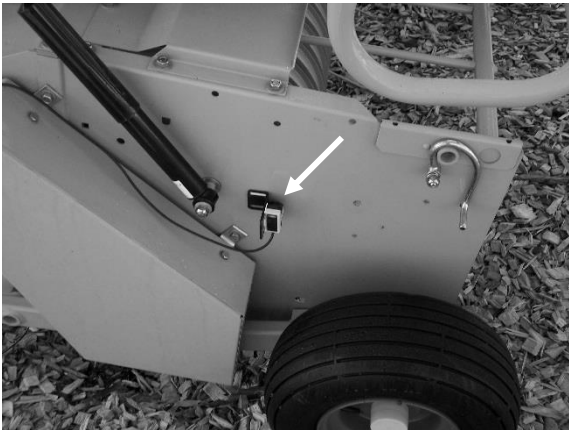
Common Mounting Locations for Round Balers

AGCO Round Balers



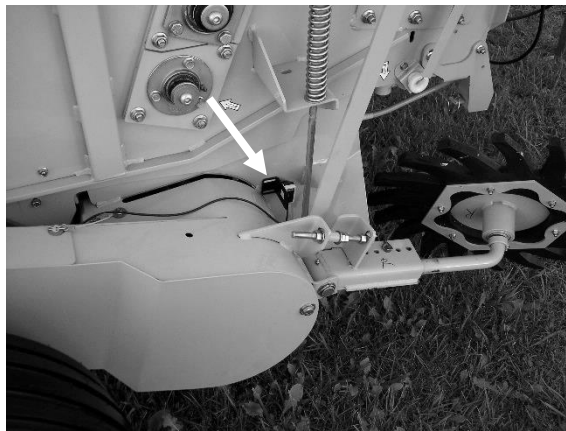
Mount the Hay Indicator as shown on the side of the sheet metal (Option 1 Mounting Style). Mark two holes per side to mount the bracket and one hole for the sensor. The sensor hole will be 1-1/4" diameter; the bracket holes will be 5/16". Attach to the sheet metal using the 5/16" x 3/4" carriage bolts and flange nuts. The head of the bolt will fit into the mounting bracket. Use the alignment tool on the sensor before tightening down bolts. Trash plate will need to be installed.

Claas Round Balers



Mount the Hay Indicator as shown on the side of the sheet metal (Option 1 Mounting Style). Mark two holes per side to mount the bracket and one hole for the sensor. The sensor hole will be 1-1/4" in diameter; the bracket holes will be 5/16". Attach to the sheet metal using the 5/16" x 3/4" carriage bolts and flange nuts. The head of the bolt will fit into the mounting bracket. Use the alignment tool on the sensor before tightening down bolts. Trash plate will need to be installed.

Vermeer Round Balers



Shown above are two common mounting locations on Vermeer balers. Mount the Hay Indicator as shown on the side of the sheet metal (Option 1 Mounting Style). Mark two holes per side to mount the bracket and one hole for the sensor. The sensor hole will be 1-1/4" in diameter; the bracket holes will be 5/16". Attach to the sheet metal using the 5/16" x 3/4" carriage bolts and flange nuts. The head of the bolt will fit into the mounting bracket. Use the alignment tool on the sensor before tightening down bolts. Trash plate will need to be installed.

Common mounting locations for Round Balers (continued)

Krone Round Balers



Mount the Hay Indicator as shown on the side of the sheet metal (Option 1 Mounting Style). Mark two holes per side to mount the bracket and one hole for the sensor.

The sensor hole will be 1-1/4" diameter; the bracket holes will be 5/16". Attach to the sheet metal using the 5/16" x 3/4" carriage bolts and flange nuts. The head of the bolt will fit into the mounting bracket. Use the alignment tool on the sensor before tightening down bolts. Trash plate will need to be installed.

New Holland & Case Round Balers

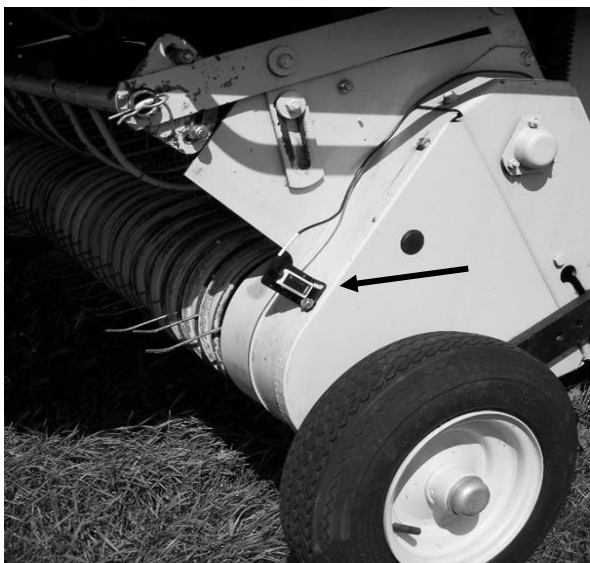


Figure 1



Figure 2

Depending on the type and style of the baler pickup the Hay Indicator will either directly on the baler pickup (Figure 1) or on the side of the head sensing through the sheet metal (Figure 2).

Figure 1: Use one existing bolt on opposite sides of the baler to mount initially (Option 3 Mounting Style). Use a straight edge or the built in alignment tool to mark the hole 5/16" and attach with the 5/16" x 3/4" carriage bolt and flange nut.

Figure 2: Mount the Hay Indicator as shown on the side of the sheet metal (Option 1 Mounting Style). Mark two holes per side to mount the bracket and one hole for the sensor. The sensor hole will be 1-1/4" in diameter; the bracket holes will be 5/16". Attach to the sheet metal using the 5/16" x 3/4" carriage bolts and flange nuts. The head of the bolt will fit into the mounting bracket. Use the alignment tool on the sensor before tightening down bolts. Trash plate will need to be installed.

Common mounting locations for Round Balers (continued)

New Holland & Case Rollbelt Balers

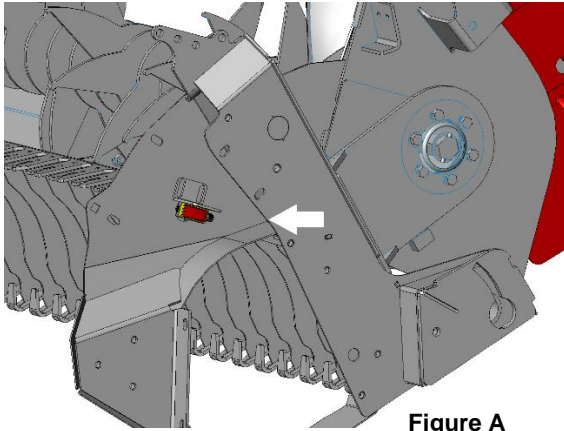


Figure A

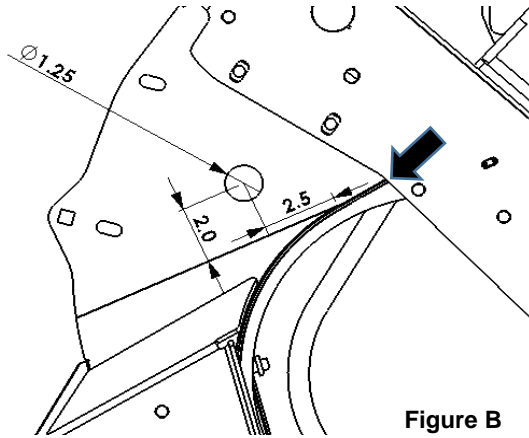
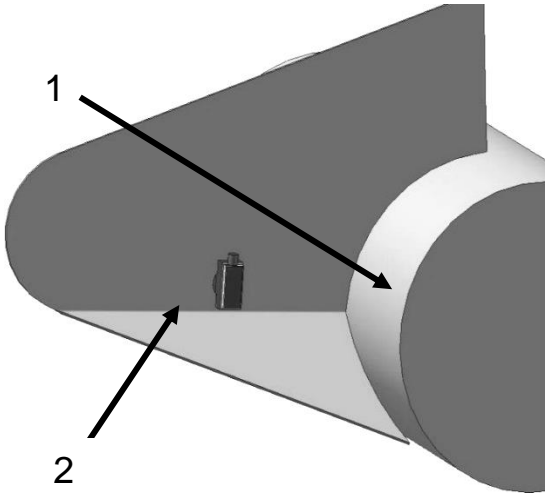


Figure B

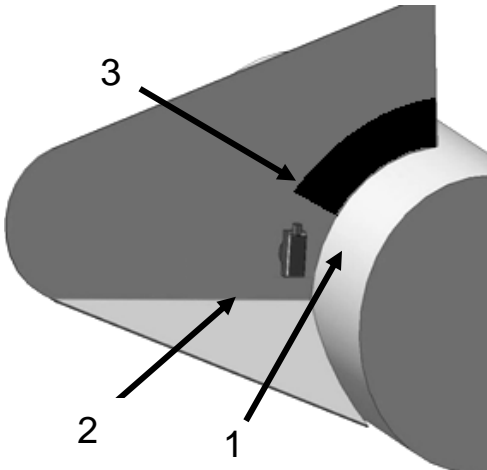
Mount the crop eye as shown in figure A by following the measurements in figure B. Beginning at the location indicated by the arrow, measure 2.5" along bend in pickup sheet metal toward front of pickup. Measure 2" toward top of pickup and drill a 1-1/4" hole. Mount the trash plate (001-5105S) on the outside of pickup sheet metal by drilling two additional 5/16" holes. Install the plastic nut on the end of the hay indicator and use the alignment tool on sensor before tightening the nuts.

John Deere 5-8 Series Round Balers



Mount the Hay Indicator as shown on the side of the sheet metal. Drill a 1-1/4" hole 5" from (1) towards the front of the baler and one inch up from (2). Mount the trash plate (001-5105S) on the outside of pickup sheet metal by drilling two additional 5/16" holes. Install the plastic nut on the end of the hay indicator and use the alignment tool on sensor before tightening the nuts.

John Deere 9 and 0 Series Round Balers



Hay Indicator mounts on the side of the sheet metal. Drill a 1-1/4" hole 2" from (1) towards the front of the baler and one inch up from (2). Prior to installation remove 2" from rotating sheet metal, shown at location (3), on baler which would hit crop eye as pickup is raised. Mount the trash plate (001-5105S) on the outside of pickup sheet metal by drilling two additional 5/16" holes. Install the plastic nut on the end of the hay indicator and use the alignment tool on sensor before tightening the nuts.

John Deere Megawide Pickup

Due to the multiple overlapping components of the telescoping pickup head, a number of cutouts will need to be done to accommodate for the crop eye placement.

***Left Hand side of baler shown**



Cutout A

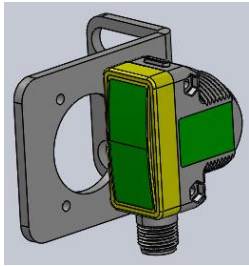
From the front edge of the shield, measure horizontally along the weld approximately 2", or to within $\frac{1}{4}$ " of the back of the weld. Mark a vertical line on the shield. Cut the shield along the vertically marked line and horizontally at the top of the weld.

Cutout B

Locate the slotted bracket and cut approximately 1.25" off the end of the bracket. Leave $\frac{1}{2}$ " from edge of slot to cut.

Cutout C

Locate the corner of the formed shield (indicated by arrow). Measure forward horizontally along bend line 1.5", make a mark. Measure vertically and perpendicular to bend line 1.25". Mark Location C and use a 1-1/4" hole saw to cut a hole through the shield that the hay indicator sensor can see through.

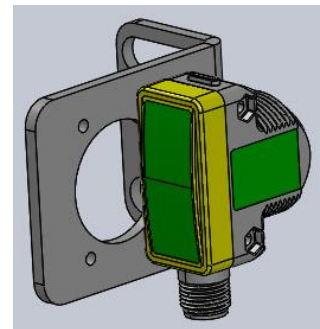
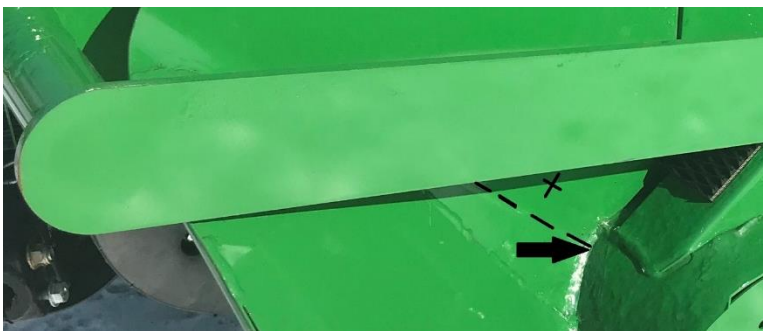


Assembly the hay indicator sensor to the supplied bracket 001-5105E with the supplied hardware. Align the sensor concentric with the 1-1/4" hole, and the bottom of edge of the bracket parallel with the formed bend in the shield. Drill 2x 5/16" holes aligned with the center of the slots. Secure the brackets to the shield using the supplied hardware, assembly loosely until sensors have been aligned. Upon completion of alignment, tighten the hardware. Route sensor wiring downward and away from moving parts.



John Deere Megawide with HC2 Pre-Cutter Pickup

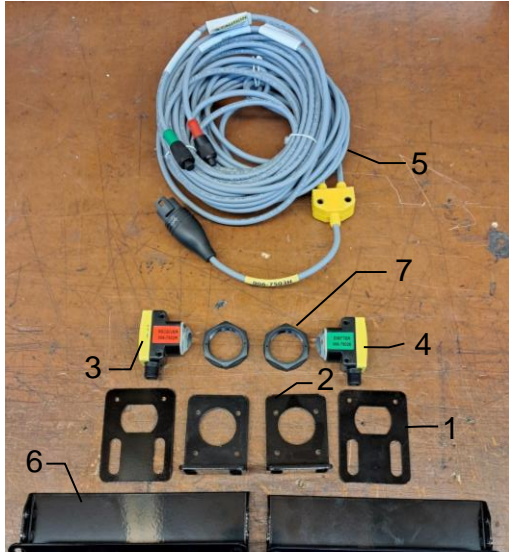
Locate the vertical shield on the side of the pickup head. Locate the intersection of the bend line and the radius, indicated by the arrow in picture below.



Measure from the intersection along the bend line 1.5" and make a mark. Measure perpendicular to the bend line from the mark 1.25" and make another mark for the 1-1/4" hole. Cut a 1-1/4" hole with a hole saw. Assembly the sensor to the supplied bracket, 001-5105E, as shown below using supplied hardware. Note that the excess length of the bracket flange can be cut off for clearance.

Align the sensor concentric with the 1-1/4" hole, and the bottom of edge of the bracket parallel with the formed bend in the shield. Drill 2x 5/16" holes aligned with the center of the slots. Secure the brackets to the shield using the supplied hardware, assembly loosely until sensors have been aligned. Upon completion of alignment, tighten the hardware. Route sensor wiring downward and away from moving parts.

Crop Eye Forage Indicator Kit Breakdown (030-0474C)



<u>Ref#</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Trash Plate	001-5105S	2
2	Hay Indicator Bracket	001-5105E	2
3	Sensor -Receiver (Red)	006-7502R	1
4	Sensor -Emitter (Green)	006-7502E	1
5	Hay Indicator Harness- Deutsch Plug	006-7503H	1
6	Hay Diverter (used with NH and Case IH SBX only)	001-5105F	2
7	Hay Indicator Retaining Nut (Replacement, included with crop eye)	006-7502N	2

Wiring Diagram – 700 Series Round Balers

1. Connect the power harness (006-7651C) 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

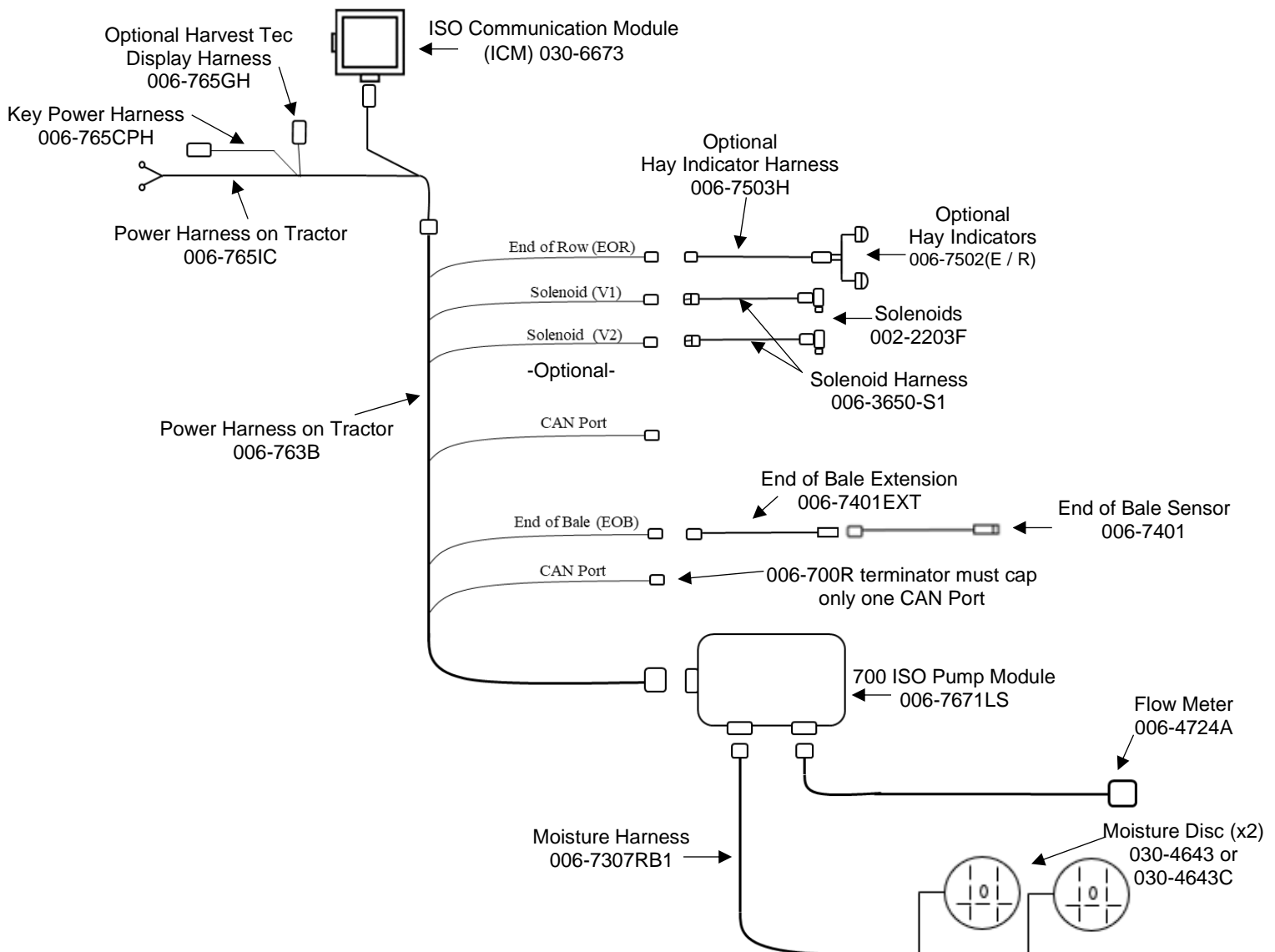
B. This unit will not function on positive ground tractors.

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 (006-7651C) will run from the tractor battery to the hitch. The power harness on the baler (006-765B2) will connect to the tractor power harness (006-7651C) 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 (006-7651C).
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 moisture harness (006-7307RB1) to each moisture disc and connect directly to the pump module.
10. Connect 006-700R terminator to either CAN port location.

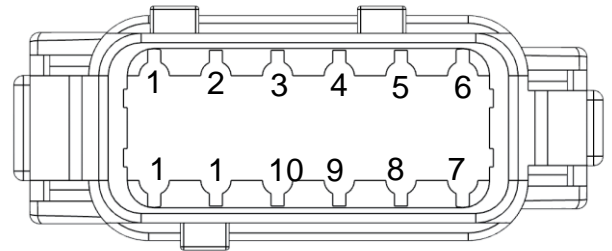


Pin Outs

Integrated Control Module (ICM) on Tractor Harness 006-765IC

(Deutsch Plug Number: DTM06-12SA)

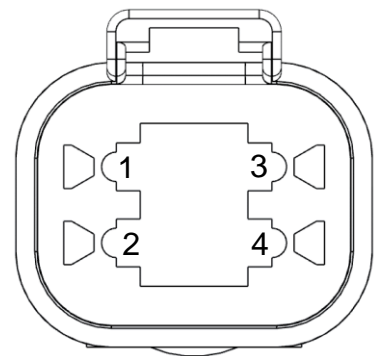
Pin 1	Red	+12V from ECU
Pin 2	Purple	Signal Wire
Pin 3	Red/White	+12V CAN X
Pin 4	Black/White	Ground CAN X
Pin 5	Orange	CAN X Hi
Pin 6	Blue	CAN X Lo
Pin 7	Green	ISO CAN Lo
Pin 8	Yellow	ISO CAN Hi
Pin 9	White	GPS Expansion 1
Pin 10	Gray	GPS Expansion 2
Pin 11	Brown	GPS Expansion 3
Pin 12	Black	Ground from ECU



ISOBUS Plug on Tractor Harness 006-765IC

(Deutsch Plug Number: DT04-4P)

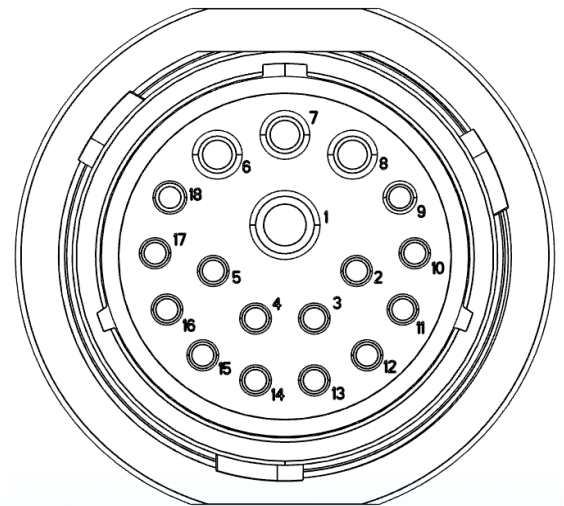
Pin 1	Red	+12V from ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground from ECU



Power / Communication Tractor Harness 006-765IC at 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 Expansion 3
Pin 18	Not Used	----

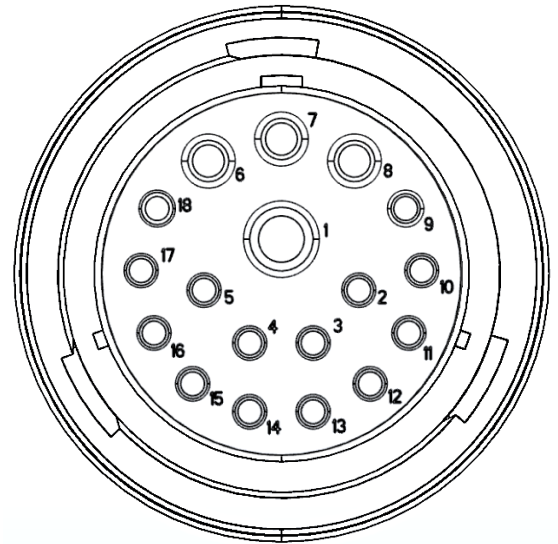


Pin Outs (continued)

Power / Communication Baler Harness 006-763B at Hitch

(Deutsch Plug Number: HDP26-24-18SN)

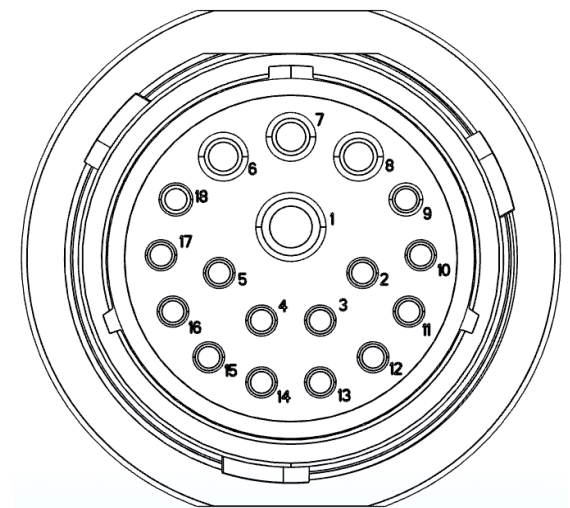
Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Orange/White	+12V Power to EOR
Pin 11	Not Used	----
Pin 12	Not Used	----
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 Baler Harness 006-763B 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 006-763B

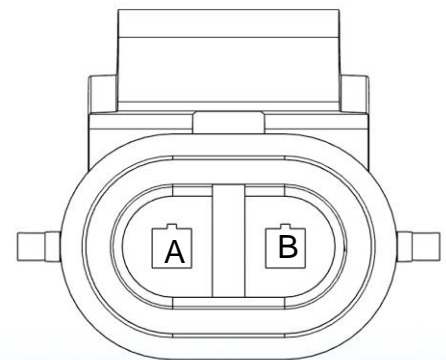
(Deutsch Plug Number: APTIV 12052641)

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

Solenoid 2 Plug on Baler Harness 006-763B

(Deutsch Plug Number: APTIV 12052641)

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

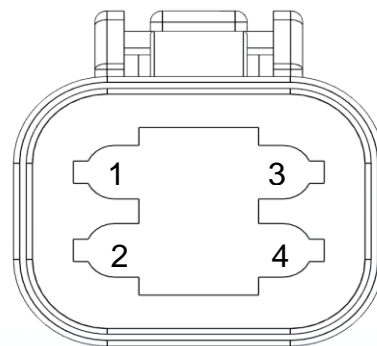


Pin Outs (continued)

CAN / IDM on Baler Harness 006-763B

(Deutsch Plug Number: DT06-4S)

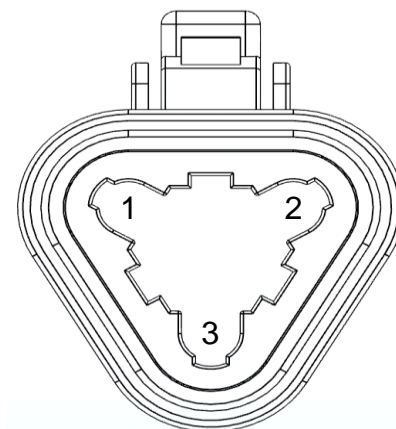
Pin 1	Red	+12V to Solenoid 2
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground to Solenoid 2



End of Bale Sensor Plug on Baler Harness 006-763B

(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 006-763B

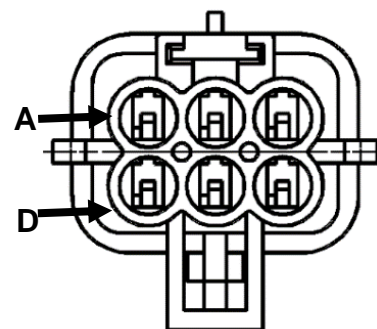
(Deutsch Plug Number: DT06-3S)

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 006-763B

(Plug: APTIV 12052848)

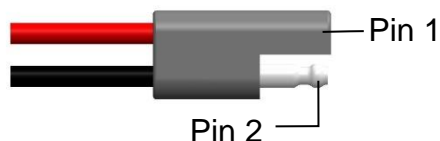
Pin A	Not Used	----
Pin B	Red	+12V Power
Pin C	Not Used	----
Pin D	Gray	Ground
Pin E	Orange	CAN Hi
Pin F	Blue	CAN Lo



Pump Connection on 700 Controller Harness

(16 AWG Two-Wire Plug)

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



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

HARVEST TEC, LLC.
P.O. BOX 63
2821 HARVEY STREET
HUDSON, WI 54016 USA
PHONE: 715-386-9100
FAX: 715-381-1792
Email: info@harvesttec.com