

Installation Manual

Model 737 ***25 Gallon Automatic Preservative Applicator***



HarvestTec®

EST. 1976

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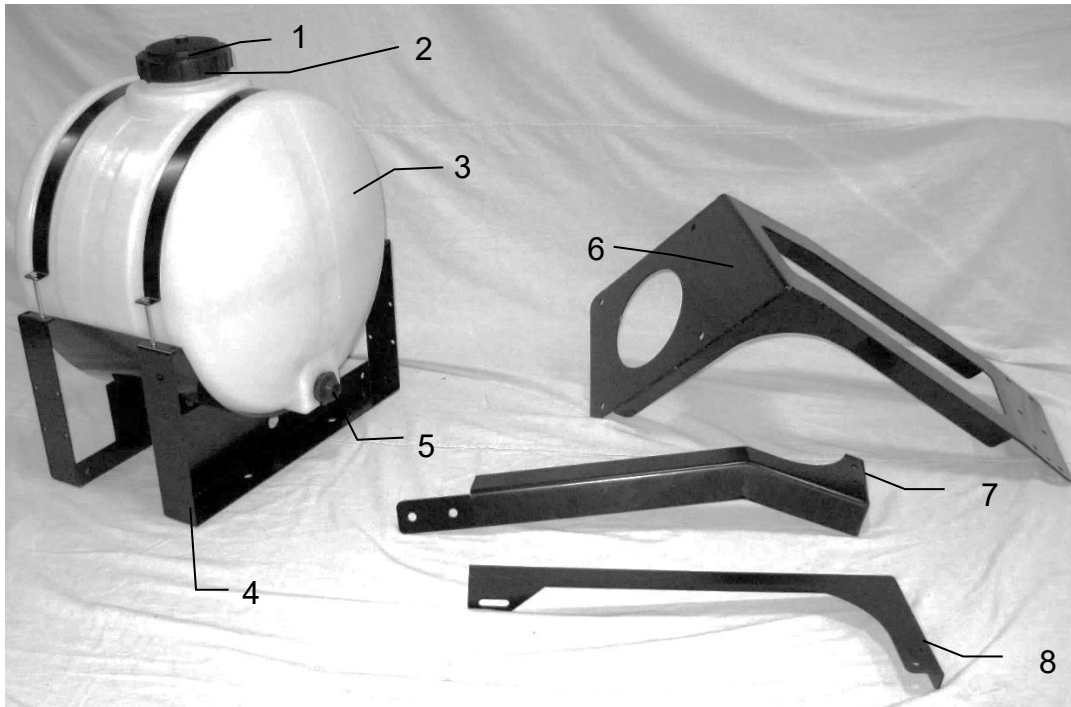
Introduction

Congratulations and thank you for purchasing a Harvest Tec Model 337 applicator. Please read this manual carefully to ensure correct steps are taken to attach the applicator to the baler. This applicator is designed to apply Harvest Tec buffered propionic acid. Use of alternative products may cause complications. Including inaccurate readings from the flow meter and damage to all parts. Resulting in the warranty being void. A parts break down for the applicator is located in the back of the manual.

Tools Needed

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

Tank Saddle Kit (030-0448-TK) **Model 737, 337 and 436 Base Kits**



<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	Tank Cap	005-9022C	1	6	Tank mount bracket	001-4442K	1
	Tank Cap Gasket	005-9022CG	1	7	Tank support	001-4442KD	1
2	Tank Strap	001-4402	2	8	Mounting support	001-4442KE	1
3	Tank	005-9022	1				
4	Saddle	001-4442	1				
5	Tank Fitting	005-9100	1				
					Tank Saddle Kit (1-5)	030-044225-TK	
					Mounting Kit (6-8)	TMK-337	

Tank Mounting Brackets

Installation -Tank Saddle Kit (030-0448-TK)

Locate tank saddle legs (001-4442K & 001-4442D) as shown in figure 1. Fasten leg 001-4442D to 001-4442K with two 3/8" x 1 1/4" bolts, locks, flats, and nuts at point A.

Secure 001-4442K to the baler using a 3/8" x 1 1/4" bolt, flat, and nut through the existing hole shown at point B on figure 2. Allow the gusset flange lip to rest on top of the baler tongue. Clamp both legs to secure bracket to baler and drill six 9/16" (14mm) on 001-4442K and two 9/16" (14mm) holes on 001-4442D, using the bracket as a guide. Secure the legs to the baler frame with eight 1/2 X 1 1/4" bolts, locks, flats, and nuts. Tighten all hardware.

Locate the legs support bracket (001-4442E). Fasten the support to the baler, in the existing holes, as shown at point C in figure 3. Use two 5/16" x 1" bolts, flats, locks and nuts. Tighten all hardware.

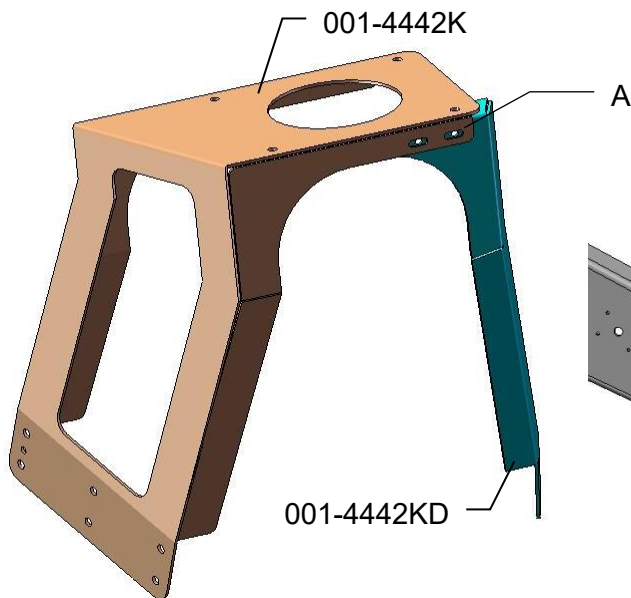


Figure 1

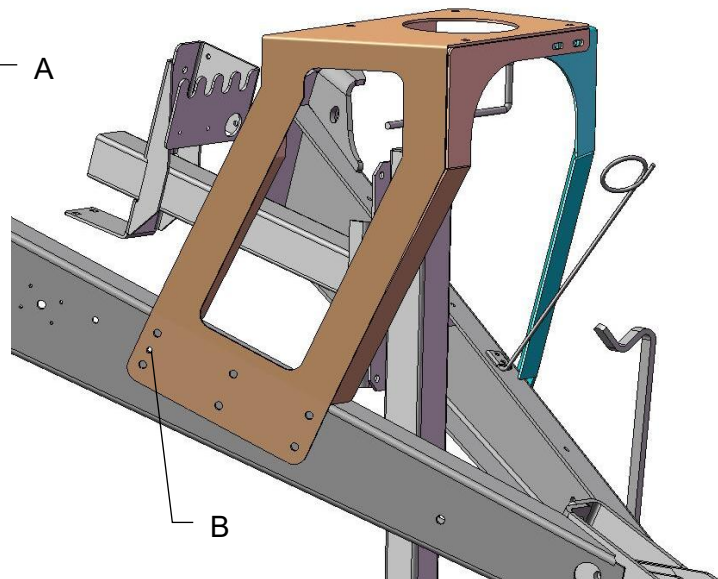


Figure 2

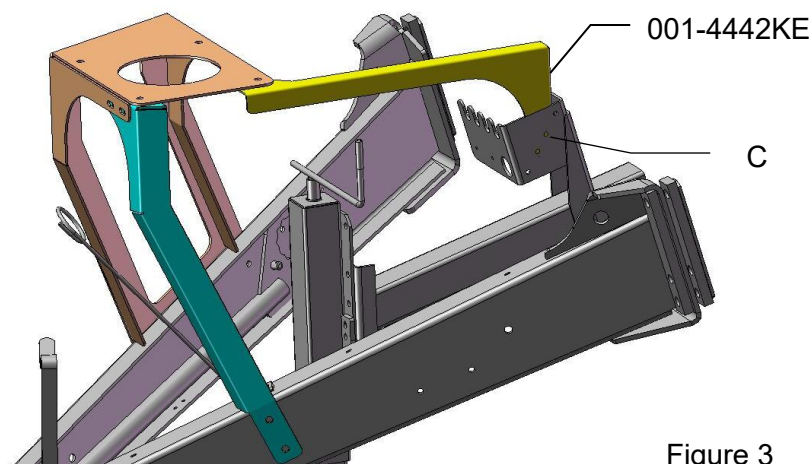


Figure 3

Tank Mounting Brackets (continued)

Tank Saddle Mounting

Locate the tank and saddle assembly. Position the tank and saddle so that the side tank fitting is towards the right side of the baler. The additional two weld-nuts on the saddle will then be facing forward as shown in point E on figure 4. Fasten the tank saddle to the frame using four 1/2" x 1 1/4" bolts, locks, flats, and nuts. Tighten all hardware.

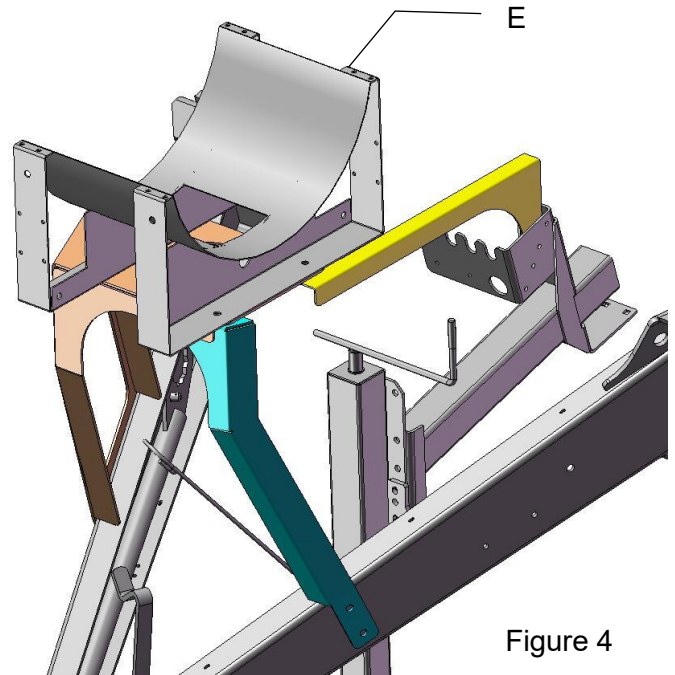


Figure 4

Drain Fill Line

Installation

Locate the drain/fill 3/4" hose, 3/4" elbow, 3/4" straight fitting, valve, quick coupler and mounting bracket. Thread 3/4" elbow fitting (003-EL3434) into side tank fitting. Run 3/4" hose from the elbow down the frame to the bottom of the baler. Drill 1/4" (7mm) holes to accept the valve holder bracket and use 5/16" x 1 1/4" self-tapping screws. Connect valve assembly to other end of hose. Place hose clamps on both ends.

Pump Plate Assembly (PMP-7636P)

Mounting

Locate parts bag 8, pump assembly (PMP-7636P) preinstalled on mounting bracket (001-4648X) as shown in figure 6. Use two 3/8" x 1-1/4" bolts, locks, and flat washers to the saddle, mount the pump assembly to the tank saddle (001-4442) as shown in figure 7.

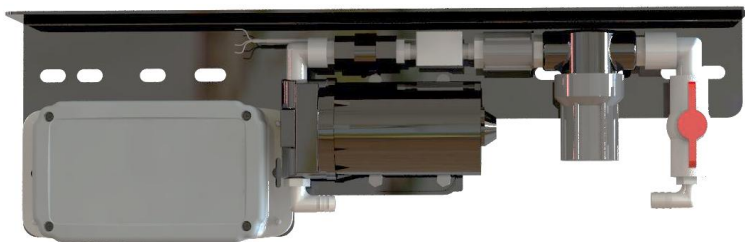
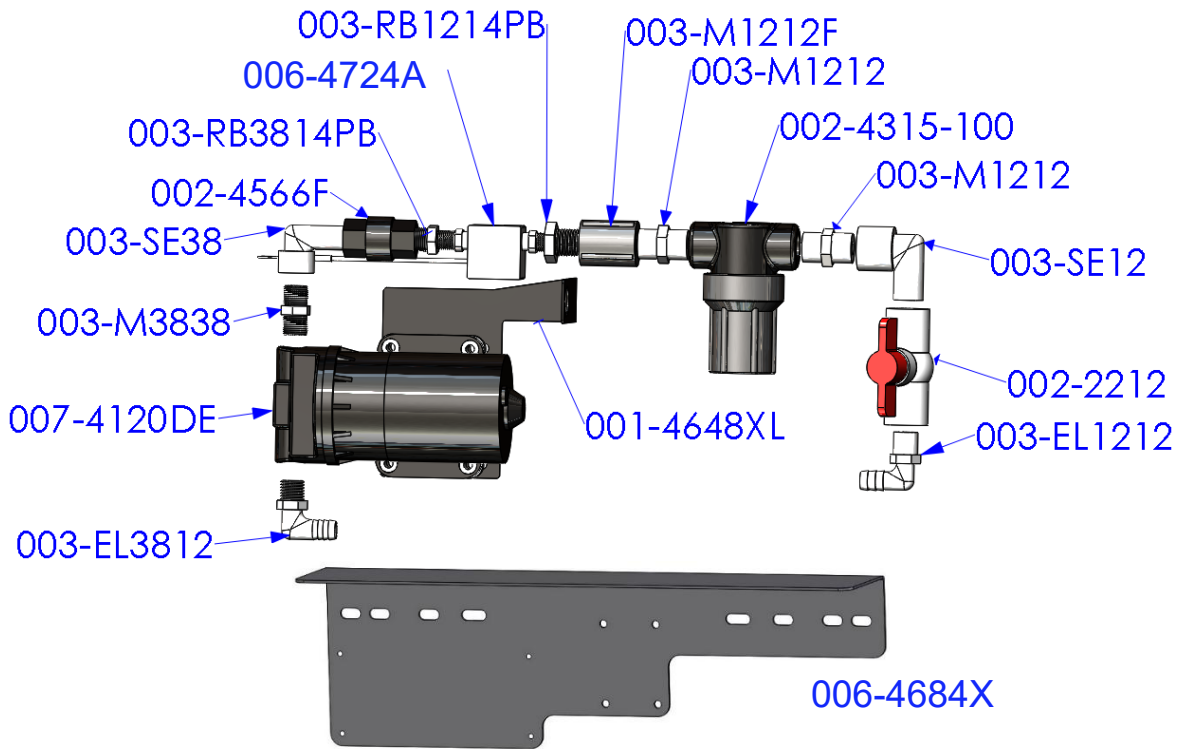


Figure 6



Figure 7

Parts Breakdown for Pump Assembly (PMP-7636P)



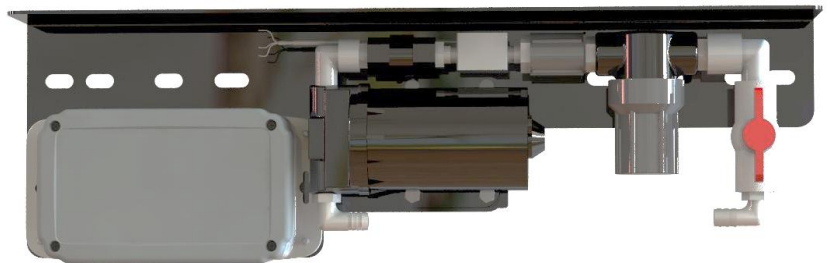
<u>Part#</u>	<u>Description</u>	<u>Qty</u>	<u>Part#</u>	<u>Description</u>	<u>Qty</u>
003-EL3812	3/8" MPT X 1/2" HB Elbow	1	003-M1212	1/2" Union	2
007-4120DE	700/300 Series Pump	1	002-4315-100	1/2" Line Strainer-100 Mesh	1
003-M3838	3/8" x 3/8" Union	1	003-SE12	1/2" Street Elbow	1
003-SE38	3/8" Street 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

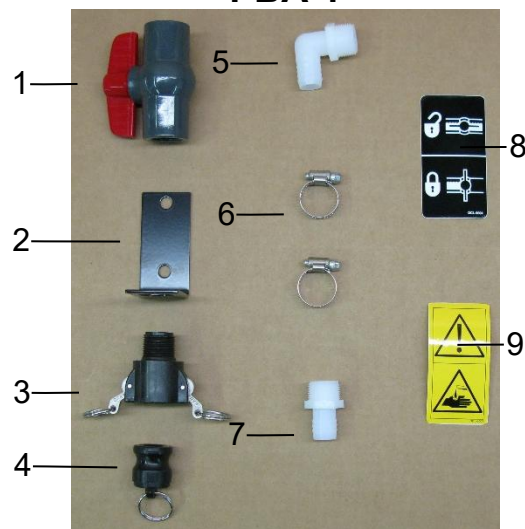
002-4315F	Filter Bowl
002-4315D	Filter Bowl Gasket
002-4315A	Replacement Screen-100 Mesh

Completed Assembly – PMP-7636P

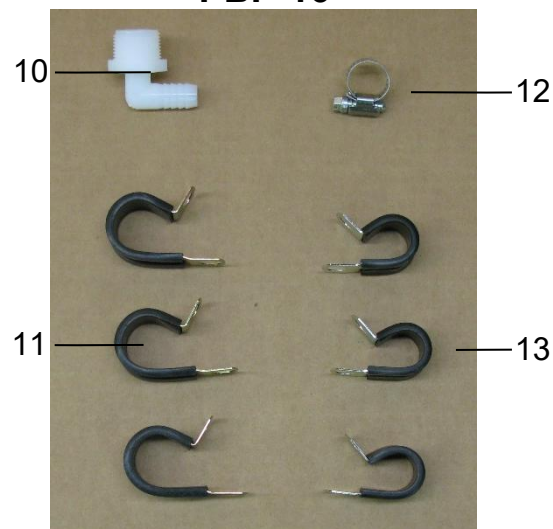


Parts Bag Packages & Hoses

PBA-1



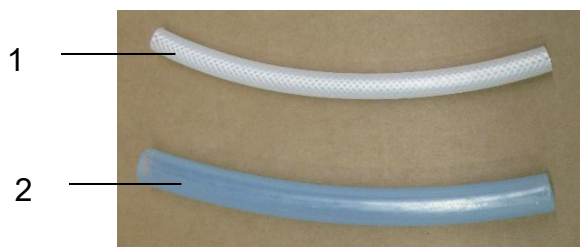
PBP-16



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	3/4" Ball Valve	002-2200	1	10	3/4" x 1/2" Elbow	003-EL3412	1
2	Valve Holder	001-6702H	1	11	3/4" Jiffy Clip	008-9010	3
3	Female Coupler	002-2204A	1	12	#6 Hose Clamp	003-9003	1
4	Male Shut-Off Plug	002-2205G	1	13	Small Jiffy Clip	008-9009	3
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
 (Inc. 10' of 3/4" EVA hose)

RB Hoses- Auto Systems

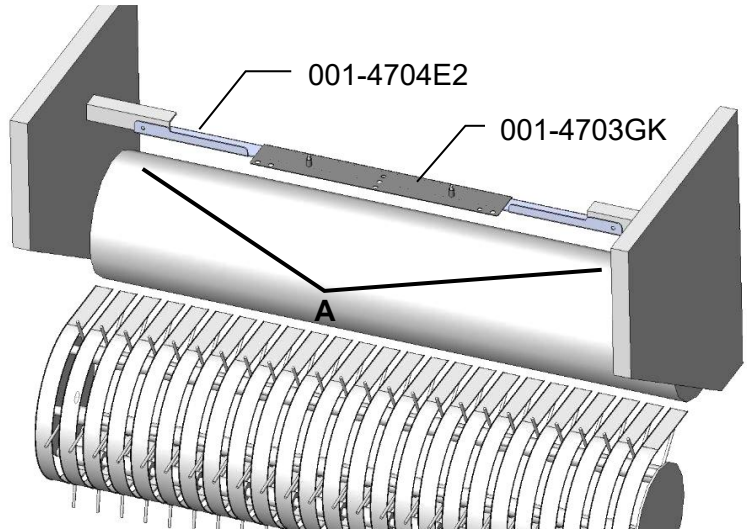


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	1/4" Hose (Solenoid to Tips)	002-9016	6ft
2	1/2" Hose (Pump to Solenoid)	002-9001	15ft
NP	3/4" Hose (Drain/ Fill Line)	002-9002	10ft

Spray Shield Assembly (030-0737-SO)

Installation

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



Spray Shield (030-0737-SO)

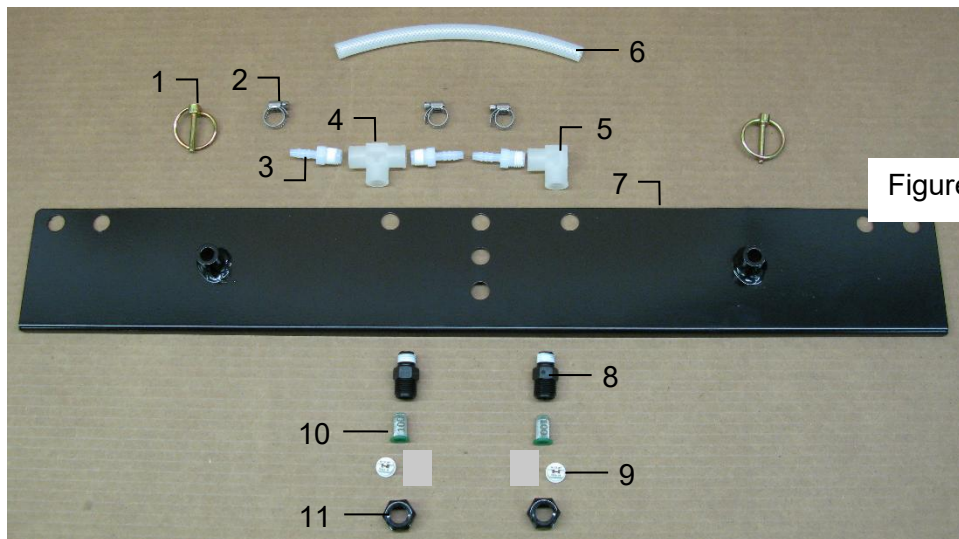
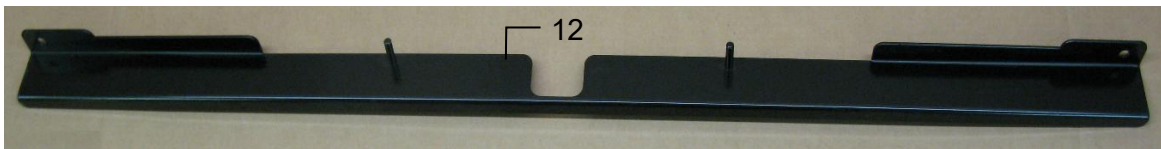


Figure 16



Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Lynch Pin	008-4576	2	9	Tip* – Grey	004-XR11006VS	2
2	Mini Hose Clamp	003-9002	3	10	100 Mesh Strainer	004-1203-100	2
3	1/4" x 1/4" Fitting	003-A1414	3	11	Nozzle Cap	004-4723	2
4	1/4" Tee Sq	003-TT14SQ	1	12	Spray Shield Holder	001-4704E2	1
5	1/4" Female St Elbow	003-SE14F	1		* Tip color subject to change		
6	1/4" Braided Hose	002-9016	2ft				
7	Spray Shield	001-4703GK	1				
8	Nozzle Body	004-4722	2				
					Complete Assembly	030-0737-SO	

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 tips move with 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

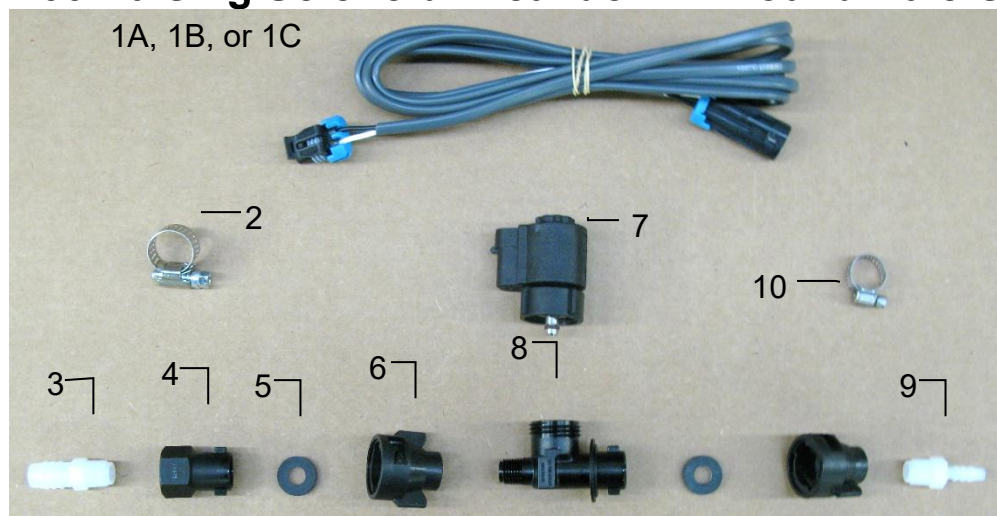
Your baler comes with a standard tip set.

-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



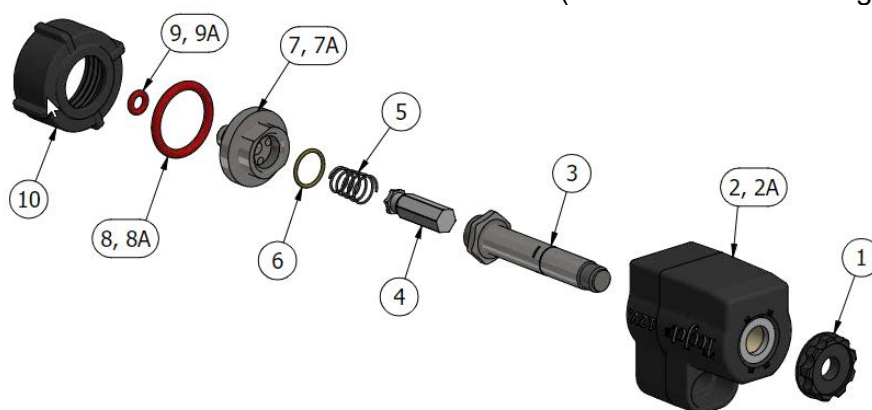
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1A	Solenoid Harness (5')	006-3650-S1		6	1/4" Female Disconnect	004-1207H	2
1B	Solenoid Harness (10')	006-3650-S2		7	Solenoid	002-2203F	1
1C	Solenoid Harness (15')	006-3650-S3		8	Solenoid Valve Body	004-1207VF	1
2	#6 Hose Clamp	003-9003	1	9	1/4" x 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)

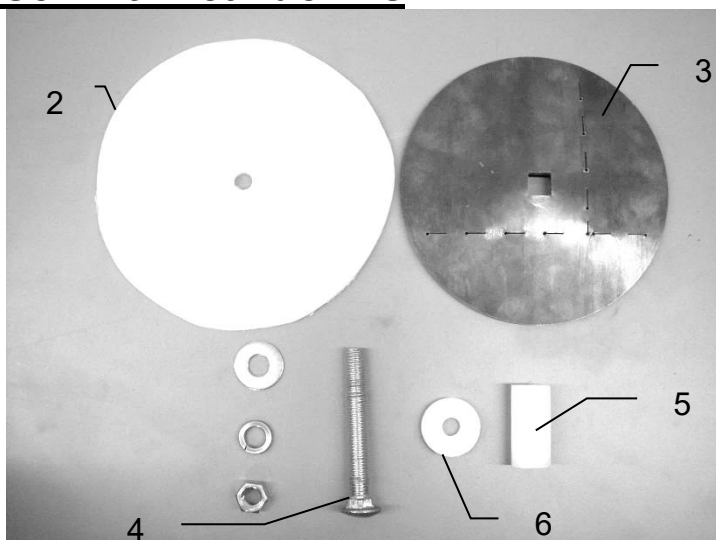


To Clean Solenoid Valves:

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.

Moisture Sensor Kit Breakdowns

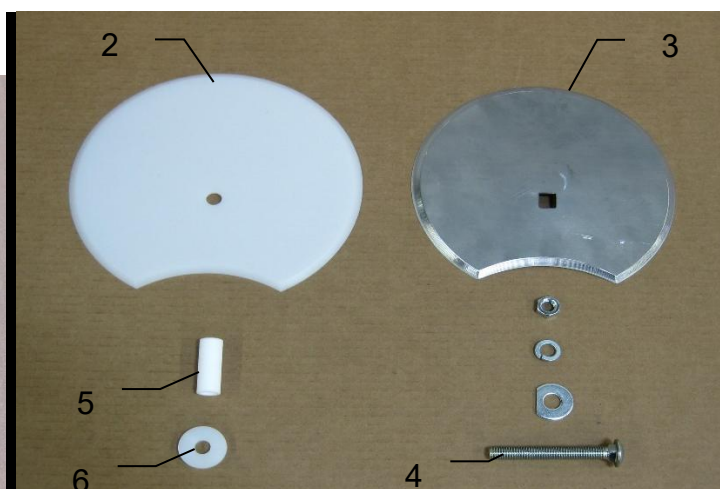
(MSH-7RB-A) Round Discs



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1A	Moisture Harness (both cables 15')	006-7307RB1	1	4	1/2"x4 1/2" Carriage Bolt, Nut and Washers	Hardware	2
2	Isolator Pad	006-4641F	2	5	Sensor Bushing	006-4641G	2
3	Moisture Disc	006-4641H	2	6	Plastic Isolator	006-4641I	2

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

(MSH-7RB-B/C) Shaped Discs



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1B	Moisture Harness (13' & 16' Cables)	006-7307RB2	1	4	1/2" x 4 1/2" Carriage Bolt, Nut, and Washers	Hardware	2
1C	Moisture Harness (both cables 15')	006-7307RB1	1	5	Sensor Bushing	006-4641G	2
2	RB Isolator Pad	006-4641FX	2	6	Plastic Isolator	006-4641I	2
3	RB Moisture Pad	006-4641HX	2				

Replacement Disc Assembly 030-4643C
(qty 1 of each Ref 2-8)
Complete Assembly B (Ref 1B-9) MSH-7RB-B
Complete Assembly C (Ref 1C-9) MSH-7RB-C

Moisture Sensor Kit

General Installation – See attached pages for baler specific install instructions

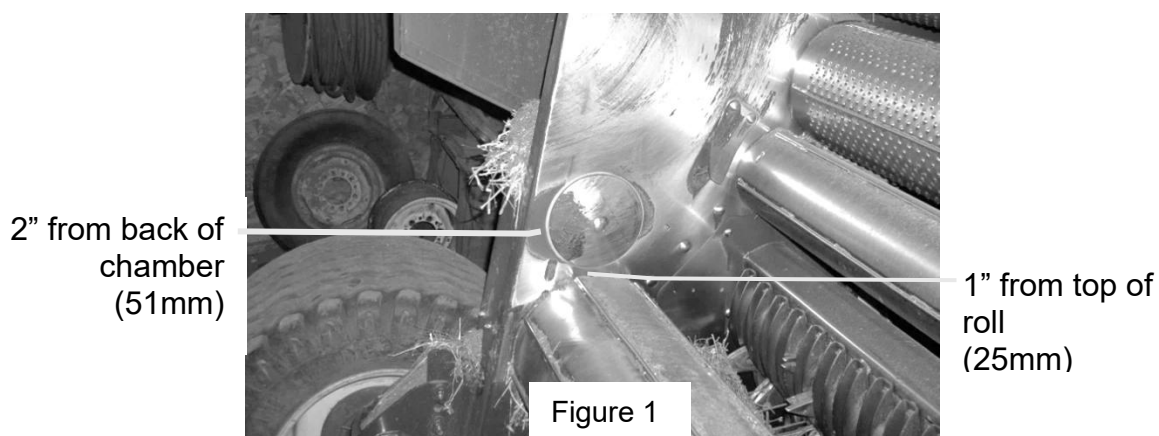
Some factory moisture discs may be used with the Harvest Tec system as long as they are fully insulated from the baler (no metal on metal contact) and attach to the baler with a single bolt. Factory moisture system wires must be disconnected from both moisture sensor discs and taped up. The balers factory 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.

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

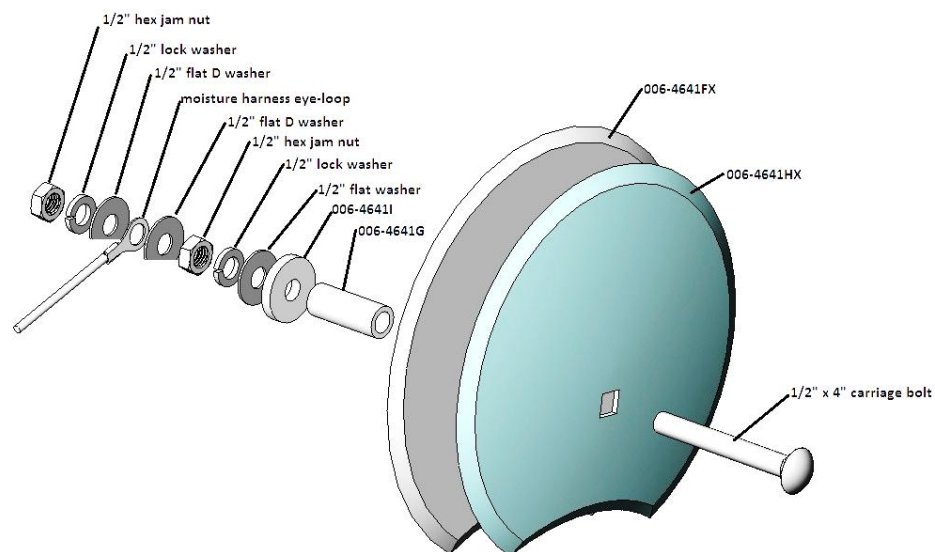
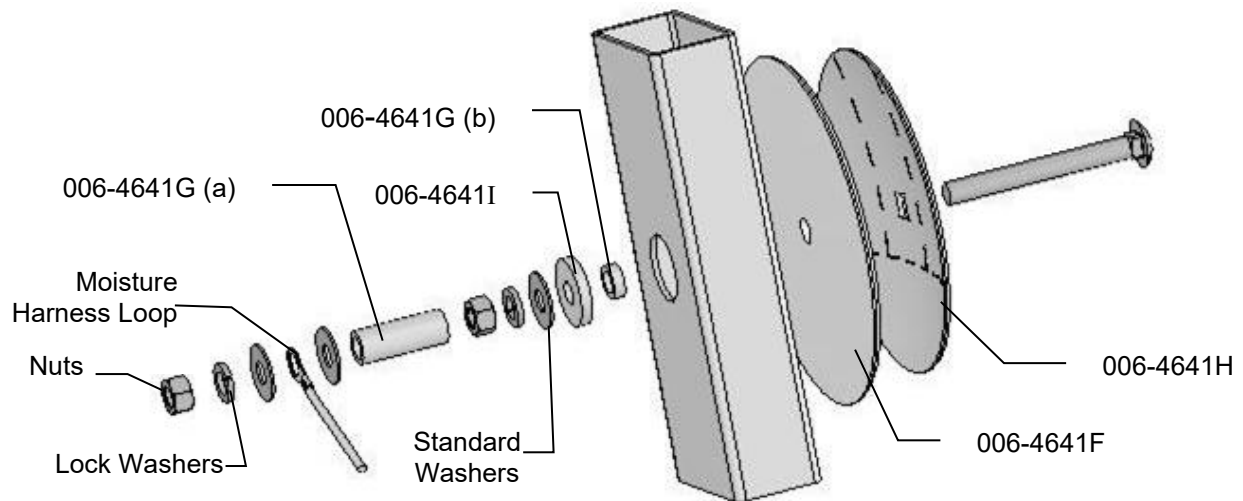
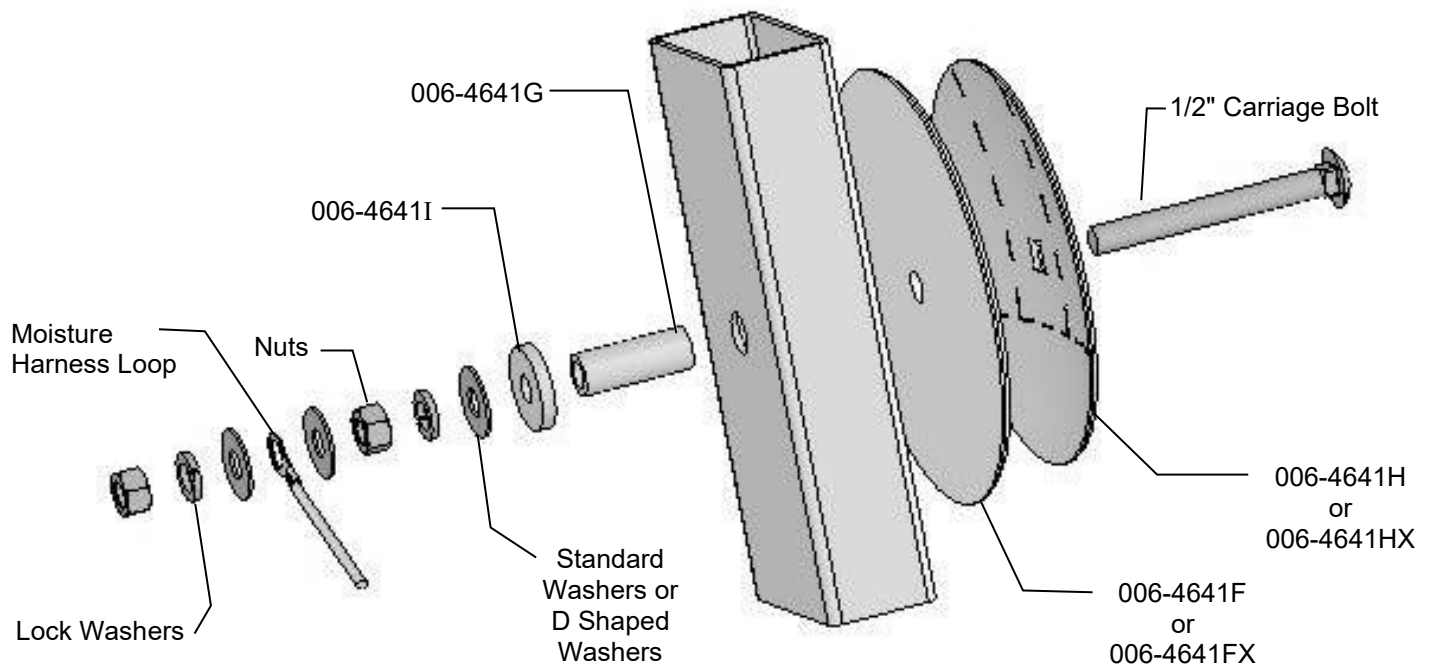
Round moisture disc assembly (030-4643) have etched markings to follow if cutting modification is needed. Curve of moisture disc assembly (030-4643C) may be modified to adjust size of curved cutout, if needed. Plastic insulating discs should protrude 1/4" (7mm) wider than the modified sensor discs. Taper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



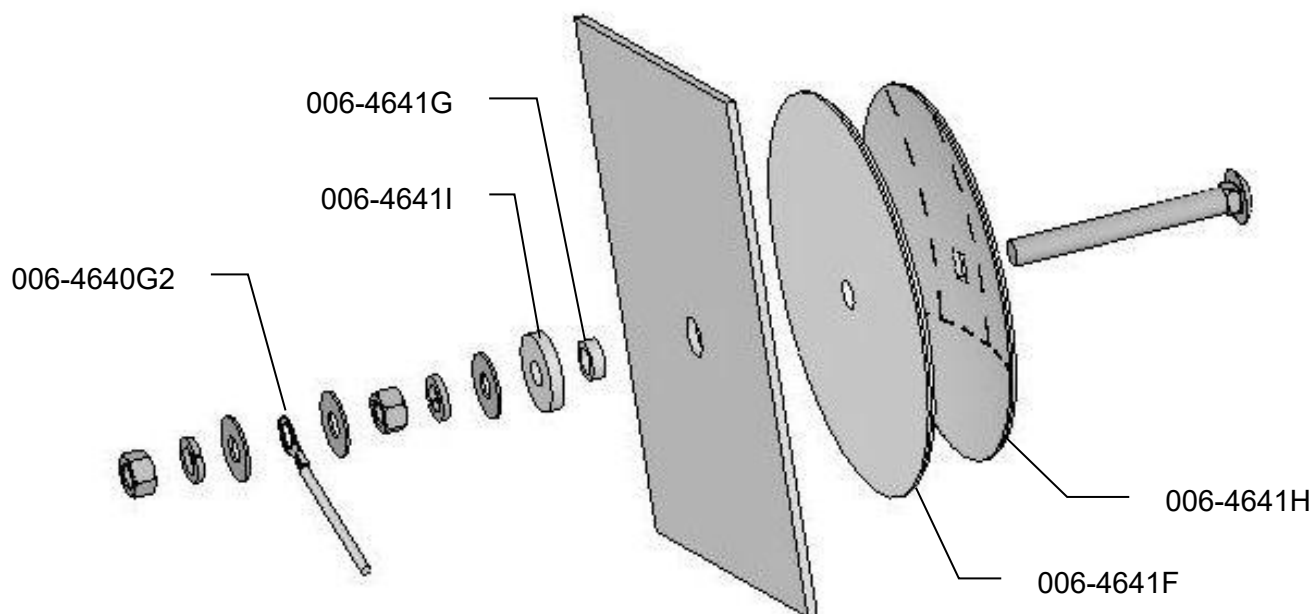
Example Moisture Disc Assembly Diagrams:



Installation of Moisture Sensing Pads – 737 and 337 Applicators



1. If your baler is equipped with bale shaping pads, remove disc and use existing hole (may need to be drilled larger, 3/4" (19mm) to install new moisture sensing discs.
2. If your baler is not equipped with bale shaping pads you will need to drill a hole in the chamber directly behind and above the starting roll (Figure 9).
3. The mounting hole will be 3/4" (3/4") in diameter. Use a plastic pad (006-4641F) and place it into the baler to use as a template. The bottom edge of the pad will be placed 1" (25mm) up from starting roll and 2" (51mm) from the back of the bale chamber. (Figure 9)



4. Locate the 006-4641G. The piece will need to be cut down to size. Use the already machined line in the bushing to cut off the small piece shown above.
5. Depending on the baler the bolt may need to be trimmed for proper fit.
6. Tighten all of the hardware to 50 ft/lbs (68 N/m).
7. Make sure that the plastic pad is protecting all metal surfaces of the disc from touching baler.
8. Run the moisture harness (006-7307RB1) from pump plate area to each disc securing with cable ties.
9. Apply silicone over nuts and washers.

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

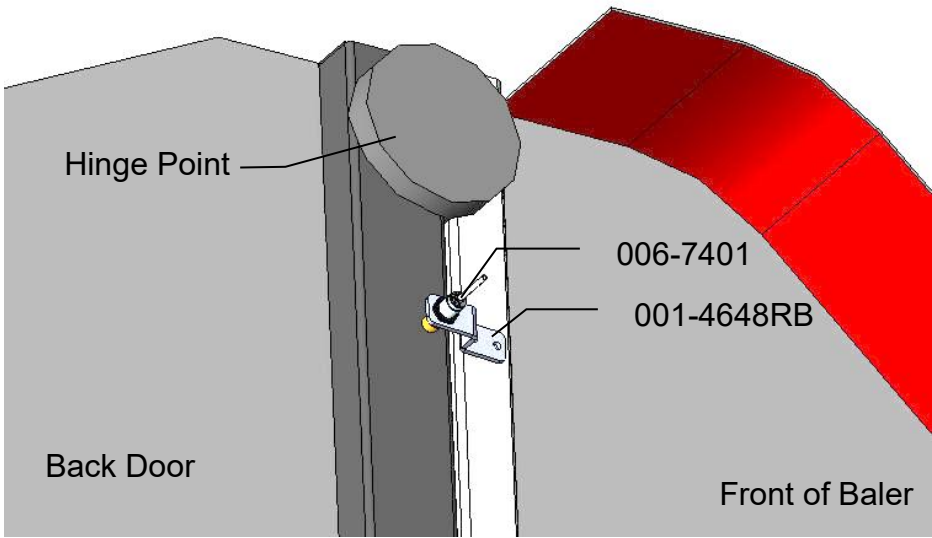
The bale rate timer sensor is used to determine when the baler door is open. With this information the system is able to change the tons/hour automatically (see Operating Instructions, Automatic Mode).

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. *For CNH Pro Belt balers, see 747P Applicator kit details.* 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.

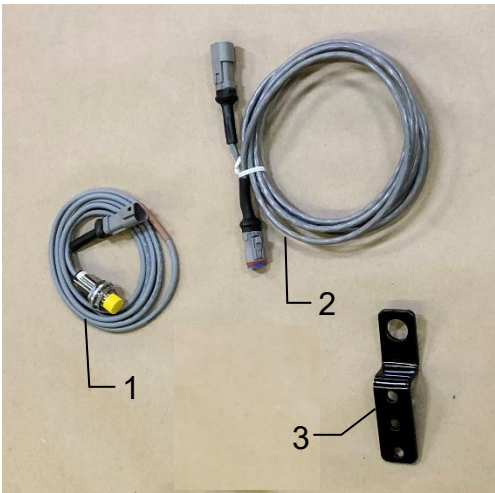
Mark and drill two 1/4” (7mm) holes and install the bracket using two 5/16” x1/4” self-tapping bolts. Install proximity sensor into the bracket, leaving 1/4” (7mm) of clearance between the yellow end of the sensor and the door when door is closed.

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 Assembly EOB-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.

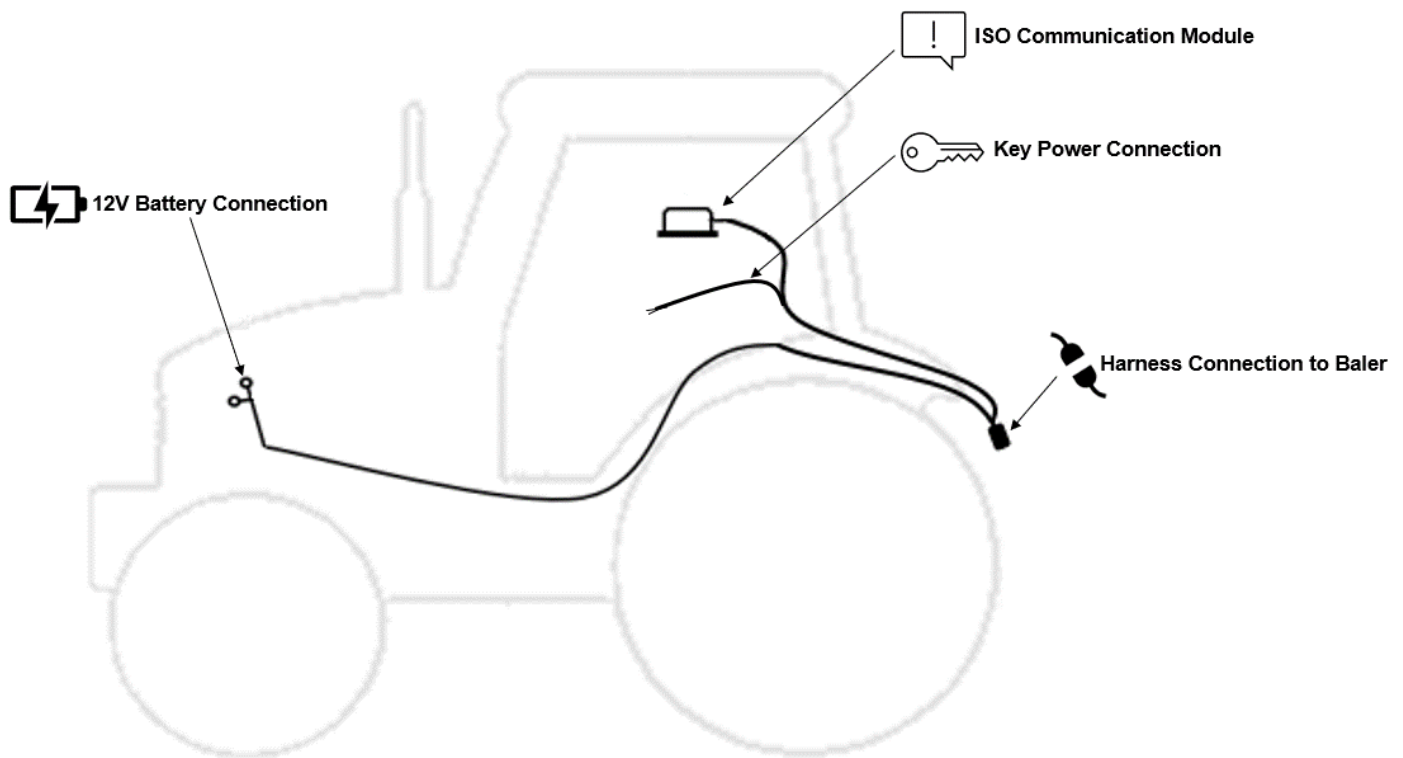
Control Box and Wiring Harnesses (030-763CPA)



<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 DIRECTLY 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 006-765VAU (UHD balers) integration harness is required when equipped.

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). 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 data transfer/charging cable to the USB port on the ICM module (USB port closest to LED light). The Harvest Tec Applicator will display upon opening the app and powering up the applicator system when connected. Tablets can be used in addition to ISO integrated baler VT display.

***Made for iPad® (iOS 15 or higher) or Android Tablet (Does not work with Amazon Fire).
Required to be running the most current operating system or one version previous.
iPads 10+ years are no longer supported by Apple and are unable to download app.**

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

Optional Harvest Tec Display Kit (030-7670DK)



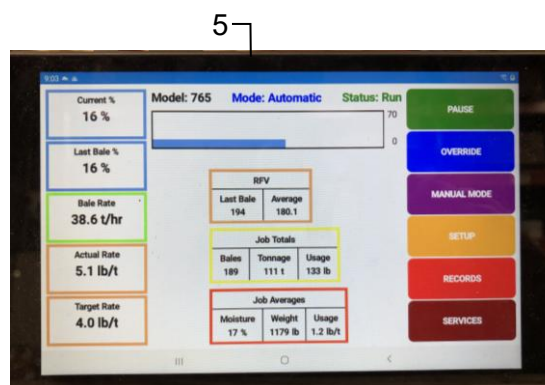
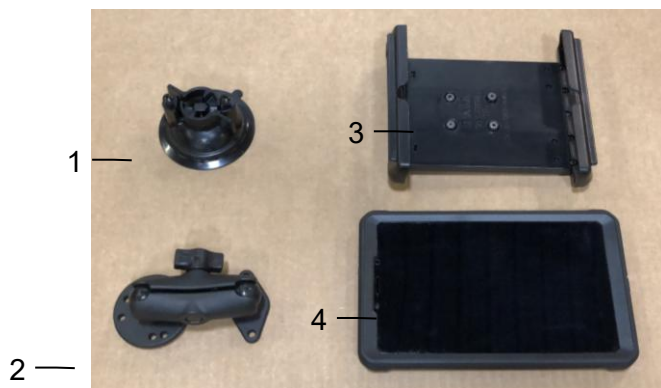
Installation Instructions

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.

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

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

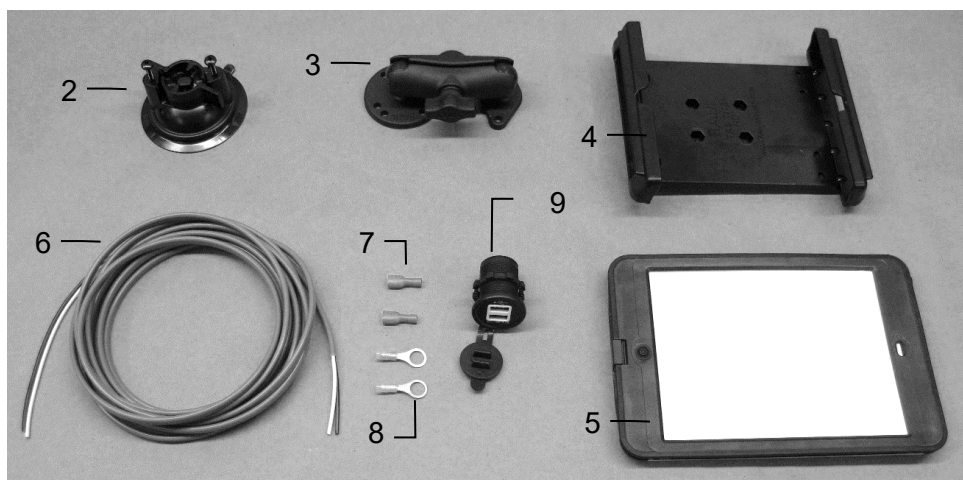
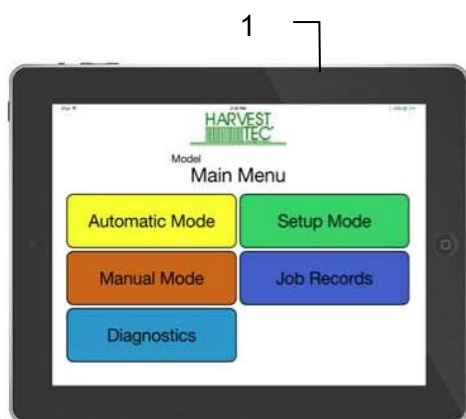
Optional Android Display Kit (030-1670DK)



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

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.

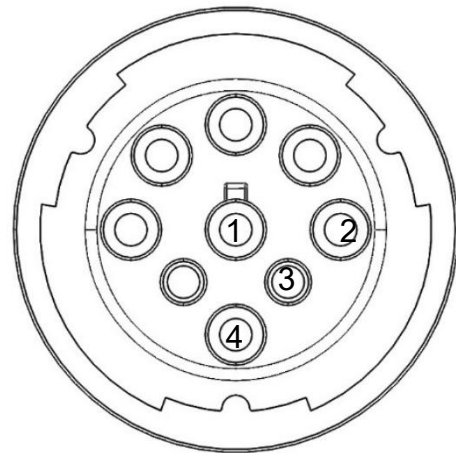
*iPad mini is a trademark of Apple Inc., registered in the U.S. and other countries.

Optional Adapter Harness for ISO Display (006-7670A)

The 700 Series Applicator has the option to tie into compatible Tractor ISO monitors by utilizing the ISO Monitor's diagnostic port for use as a Dedicated Monitor. The Harvest Tec System will then populate a new 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, and will not be integrated with any system ISO software using this adapter.** Any tablet cord connection to the ICM module must be disconnected from the ICM to allow the Harvest Tec program screen to activate with 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.

For additional information please see the Harvest Tec YouTube Channel (@harvesttec) for the 7670A Adapter Harness for ISO Display instructional video.



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

Wiring Diagram – 731, 735Z, 737, 738K, 747, & 749 Models

11. 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

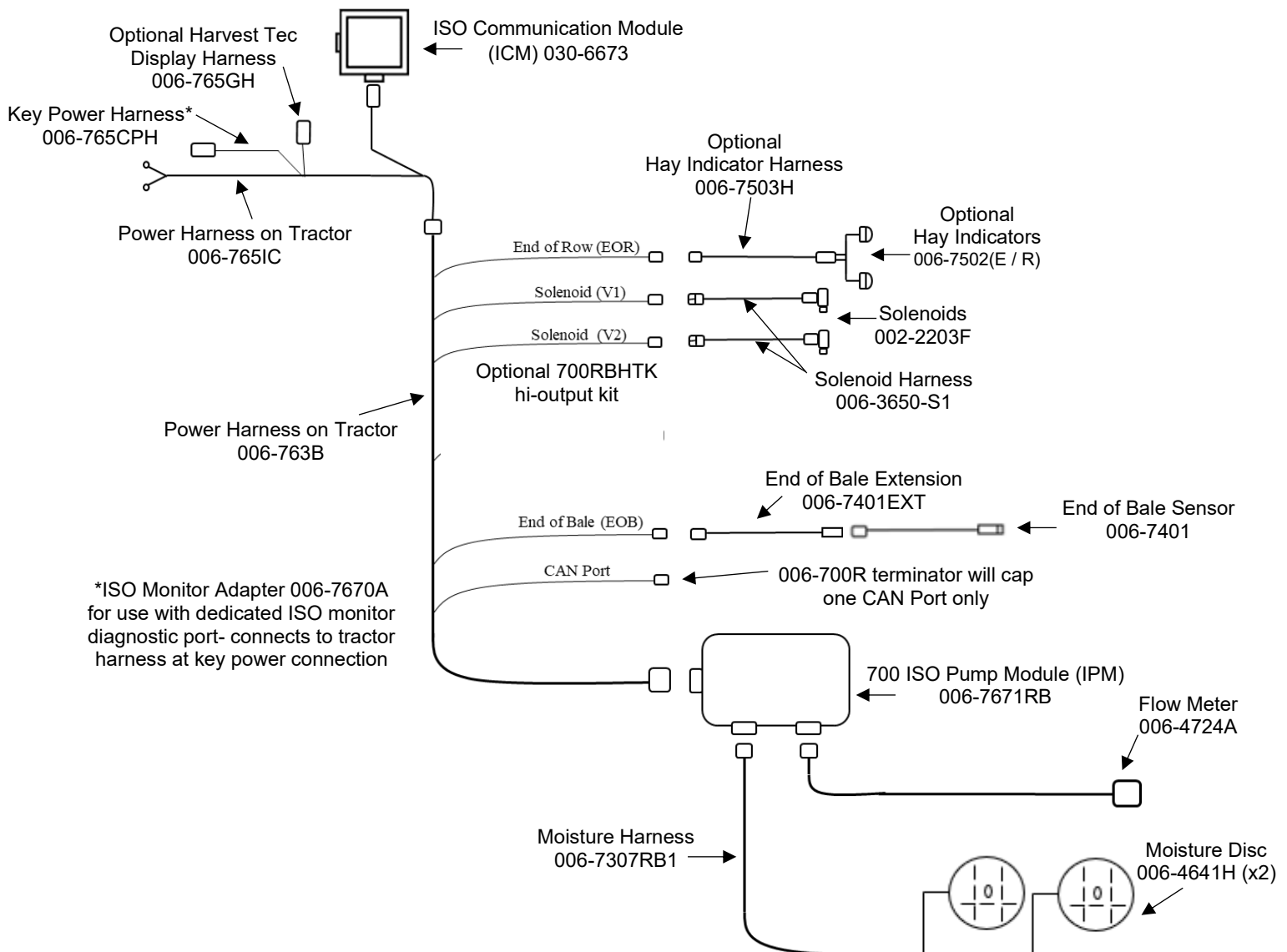
B. This unit will not function on positive ground tractors.

C. If the unit loses power while operating it will not keep track of accumulated pounds of product used.

12. The power harness on the tractor (006-7651C) will run from the tractor battery to the hitch. The power harness on the baler (006-763B) will connect to the tractor power harness (006-7651C) at the hitch.
13. 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.

14. Attached the ISO Communication Module (006-6673) to the tractor power harness (006-7651C).
15. Attach the End of Bale (EOB) connection on baler harness (006-763B) to the EOB Sensor (006-7401).
16. Attach the Solenoid (SOL 1) connections on the baler harness (006-763B) and to the solenoids (002-2203F).
17. Attach the Flowmeter (006-4724A) to the Pump Module connection on pump plate assembly.
18. Attach the rubber molded connector on pump plate to the Pump (007-4120DE).
19. Attach moisture disc harness (006-7307RB1) connection to the IPM and connect to Moisture Discs
20. Ensure 006-700R terminator is connected to CAN/IDM port on 006-763B harness



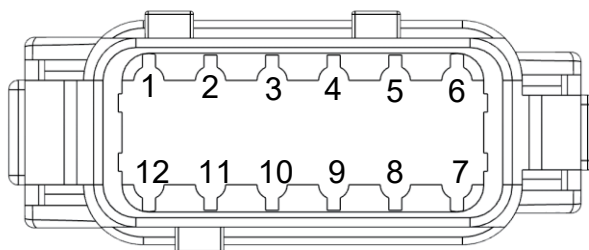
*ISO Monitor Adapter 006-7670A for use with dedicated ISO monitor diagnostic port- connects to tractor harness at key power connection

Pin Outs

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

(Deutsch Plug Number: DTM06-12SA)

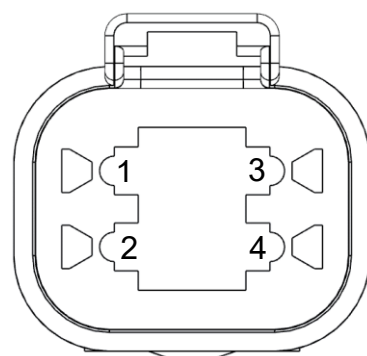
Pin 1	Red	+12V from ECU
Pin 2	Purple	Signal Wire
Pin 3	Red/White	+12V CAN X
Pin 4	Black/White	Ground CAN X
Pin 5	Orange	CAN X Hi
Pin 6	Blue	CAN X Lo
Pin 7	Green	ISO CAN Lo
Pin 8	Yellow	ISO CAN Hi
Pin 9	White	GPS Expansion 1
Pin 10	Gray	GPS Expansion 2
Pin 11	Brown	GPS Expansion 3
Pin 12	Black	Ground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



ISOBUS Plug on Tractor Harness 006-765IC

(Deutsch Plug Number: DT04-4P)

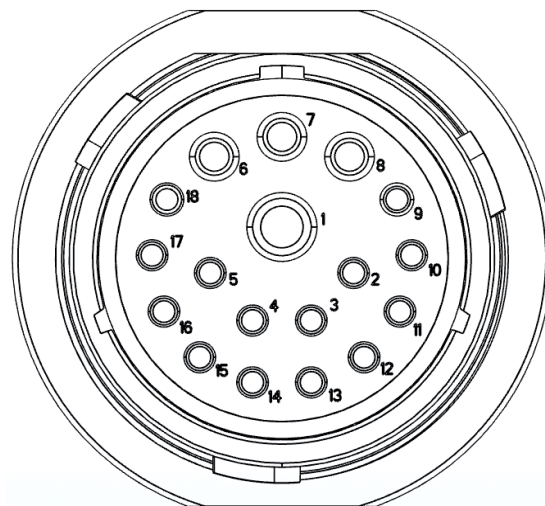
Pin 1	Red	+12V from ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground from ECU



Power / Communication on Tractor 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 Expansion 3
Pin 18	Not Used	----

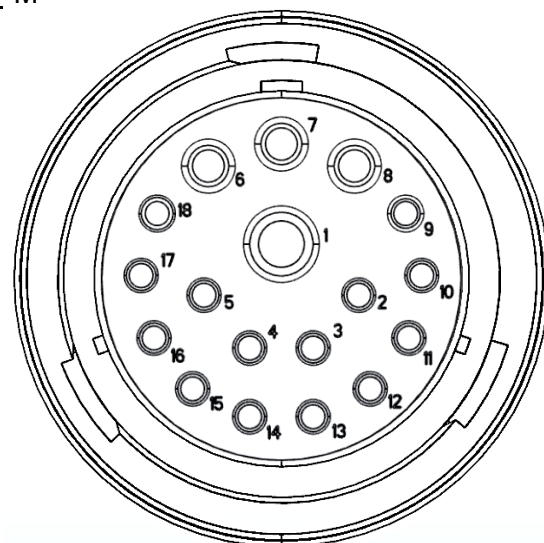


Pin Outs (continued)

Power / Communication on Baler Harness 006-763B at Baler Hitch IPM

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

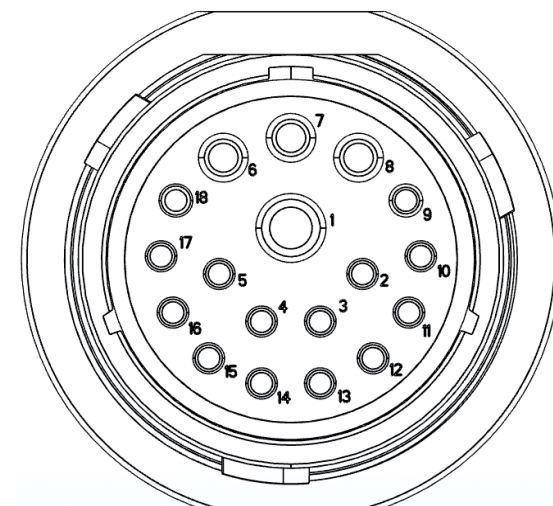
Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Not Used	----
Pin 11	Not Used	----
Pin 12	Not Used	----
Pin 13	Not Used	----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



Power / Communication on Baler Harness 006-763B at IPM Module

(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	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

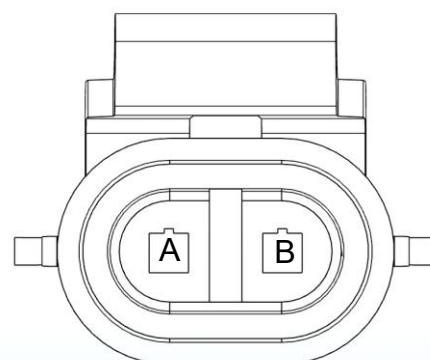
(Deutsch Plug Number: APTIV 12052641)

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

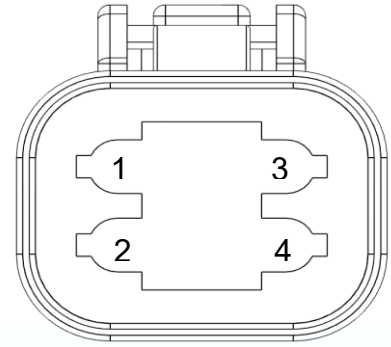


Pin Outs (continued)

CAN / IDM on Baler Harness 006-763B

(Deutsch Plug Number: DT06-4S)

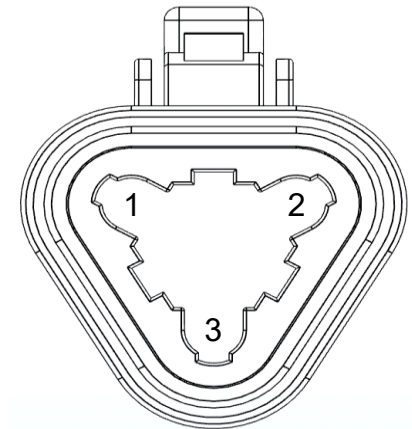
Pin 1	Red	+12V to ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground to ECU



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

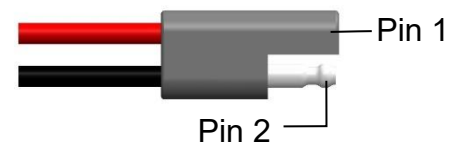
(Deutsch Plug Number: DT06-3S)

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

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

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