

Installation Manual

Model 744, 745, 750 & 751 ***25 & 55 gallon Automatic Preservative Applicator***



*Equipment and Products
for Quality Hay.™*

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Introduction

Read this manual carefully to ensure correct steps are done 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 and voids warranty. Complications may include inaccurate readings from the flow meter and damage to system components.

The applicator can be installed on many square balers with the proper model number and installation kit. Before installing the unit on the baler, make sure you have the proper installation kit (See the chart below). Contact your local authorized dealer for specifications if you are unsure about your installation kit.

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

Model Kit Reference

Baler Make	Baler Model	Model Number	Installation Kit	Tank Size
AGCO	7105, 7110, 7115, 7120, 1835, 1837, 1837, 1841	744	4416C	55 Gallon
Case IH	8500 Series	744	4416C	55 Gallon
Case IH	SBX 520, 521	745	4409C	25 Gallon
Case IH	SBX 530, 540, 550, SB531, SB541, SB551	745	4415C	25 Gallon
Case IH	SBX 530, 540, 550, SB531, SB541, SB551	751	4415C	55 Gallon
Challenger	SB 34, 36, 44	744	4416C	55 Gallon
Freeman	270, 370	750	4506C	55 Gallon
Hesston	4550, 4570, 4590, 4600, 4655	744	4416C	55 Gallon
Hesston	4690N, 4690S	750	4502C	55 Gallon
John Deere	328, 336, 338, 346, 347, 348	745	4410C	25 Gallon
Massey Ferguson	1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1842S (Top Mount)	744	4416C	55 Gallon
Massey Ferguson	1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842 (Side Mount)	744	4417C	55 Gallon
Massey Ferguson	1842S (Side Mount)	744	4418C	55 Gallon
Massey Ferguson	1843N, 1843S	750	4502C	55 Gallon
Massey Ferguson	1844N, 1844S	750	4485C	55 Gallon
New Holland	200, 300 Series, 565 & BC5050	745	4409C	25 Gallon
New Holland	570, 575, 580, BC5060, BC5070, BC5080	745	4415C	25 Gallon
New Holland	570, 575, 580, BC5060, BC5070, BC5080	751	4415C	55 Gallon
New Holland	585, BB900	750	4507C	55 Gallon
New Idea	7205, 7210, 7215	744	4416C	55 Gallon
Welger	AP630, AP730, AP830	745	4412C	25 Gallon

Tools Needed

Standard wrench and socket set
Hose cutter
Metal drilling and cutting tools
Straight edge

Standard screwdriver set
Crescent wrench
Tape measure
1-1/2" hole saw (4415B only)

Side cutter
Hammer
Center punch

Installation of Applicator

Installation of Mounting Brackets, Tank, Pump Manifold & Hose Manifold

Model 744

Tank legs will be mounted to the back side of baler behind knotters and before the bale tensioner (Figure1).

Using Figure 2 as a reference, mark the two holes on each side of bale chamber that need to be drilled. Line up saddle leg on each side to verify holes before drilling (Figure 3). Drill all four holes to 1/2" (13mm) in size.

Bolt legs to baler with 1/2" x 1 3/4" Allen button head bolts, flat washer, Lock washer, and nuts.

*Note: bolt head is on inside of bale chamber. Level top of leg before completely tightening bolts, Figure 4.

Bale Thrower - Additional Bracket

When baler is equipped with a bale thrower, bracket (001-4703QC) will need to be used. First secure the kicker so it will not rotate when you remove the front pin on the hydraulic cylinder. Remove pin, install tank leg over mount. Reinstall pin. Use part 001-4703QC which is a spacer that will go between the leg and side of the baler to take up the space the throwers front hydraulic mount adds.



Figure 1



Figure 2

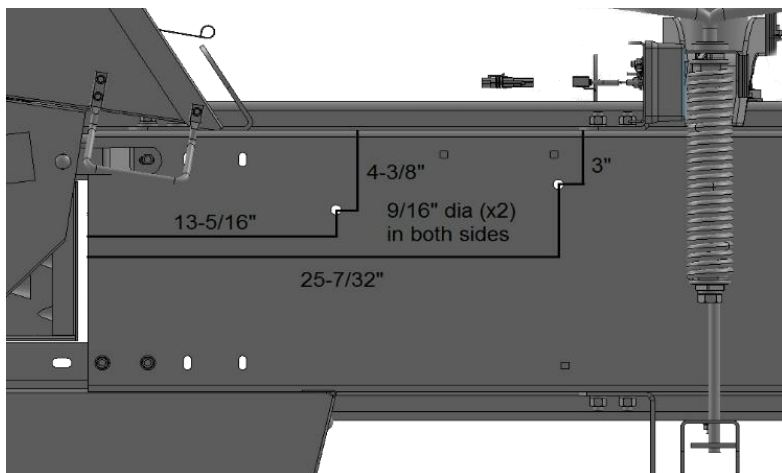


Figure 3



Figure 4

Model 744 (continued)

Saddle & Tank

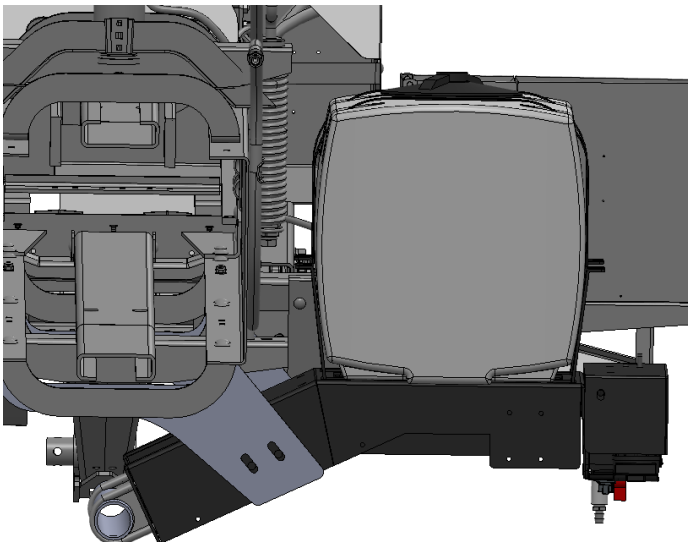
Mount tank saddle (001-4703X) onto tank legs as shown in figure 5. Bolts are pre-installed on saddle, secure with 1/2" locks, washers, and nuts.



Figure 5

Massey 1800 Series Side Mount Tank Mounting Instructions

1. Lay tank and frame assembly on ground next to bale chute on right side of baler.
2. Locate "U" bolts and install them around center hitch tube of baler. Hitch tube size may vary, kit includes two size options for U-Bolts. Attach to legs of tank frame. Do not fully tighten down nuts.
Note: Tube is not parallel to the ground so you will need to offset "U" bolts in frame.
3. Rotate tank assembly up and check to see if saddle is parallel to ground. If not adjust holes "U" bolts are installed into.
4. Install rear mount (001-4703QU or 001-4703QT for 1842S balers) just in front of "U" bracket on bottom of the bale chamber. You will need to drill 9/16" holes 13 1/2" from rear of bale chute. Secure to baler with two 1/2" x 1 3/4" BHSC bolts, locks and nuts.
5. Slide tank and saddle frame on pipe to match up with rear mount (001-4703QU or 001-4703QT) Install two 1/2" x 1 1/4" bolts, flat washers, lock washers and nuts.
6. Place second mount (001-4703QU or 001-4703QT) on front leg of tank saddle and mount to baler the same way as rear mount.
7. Check frame again so it is parallel to ground. Tighten down all bolts fully.
8. Attach pump.
 - a. For Automatic systems mount pump plate to outside edge.
 - b. For Electronic and manual systems mount pump on rear of saddle.



Model 744 (continued)

744 Pump Manifold

Locate parts bag 8. Using two 3/8" x 1/4" bolts, locks, washers, and nuts. Mount the U-shaped pump plate mount 001-4647 (right) onto the tank saddle in the mounting holes located between the strap brackets on back of saddle (figure 7).

Connect the pump plate mounting bracket (001-4648X), shown in figure 8, using two 3/8" x 1 1/4" bolts, nuts, locks, and flat washers to the mounting bracket. Install the pump plate as shown completed in figure 9.

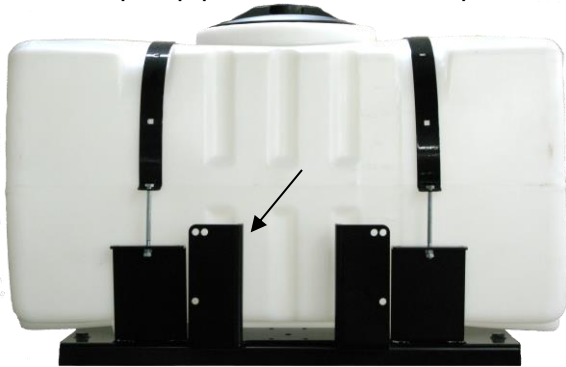


Figure 7

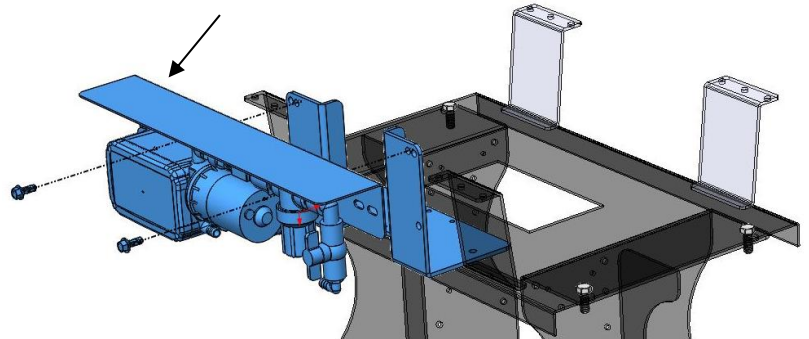


Figure 8

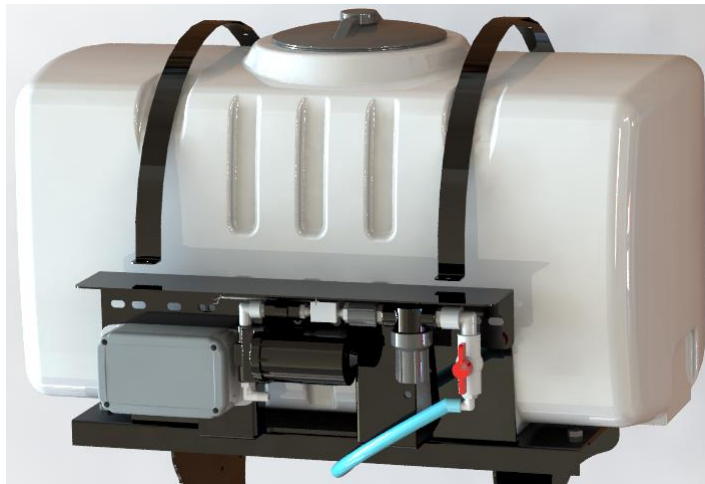


Figure 9

Massey 1800 Series Side Mount Tank Pump Manifold will mount directly to the tank saddle as shown below.

Connect the pump plate mounting bracket (001-4648X), using two 3/8" x 1 1/4" bolts, nuts, locks, and flat washers to the tank saddle (001-4703S). Install the pump plate as shown completed in figure 10.

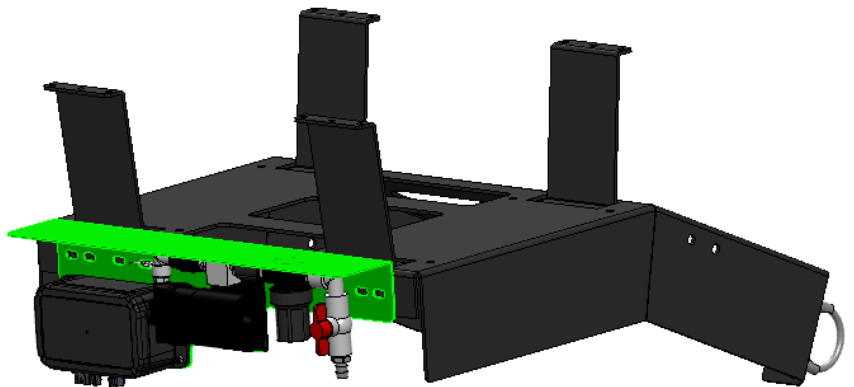


Figure 10

Model 745

The tank saddle assembly mounts to the baler by sliding over base bracket 001-4406 (Figure 11). Base bracket (001-4406) mounts to the baler's diagonal frame behind the twine box using base clamp (001-4406) and u-bolts (001-4406A), similar to Figure 12. Secure the tank saddle assembly to stub pipe bracket by placing a 1/2" x 1 1/2" bolt through appropriate aligning holes of saddle tank and base brackets.

Telescoping Reach Rod- Bolt one end of the telescoping reach rod to the top stub pipe on the tank saddle and the other end to a secure location on the baler. Reach rods tabs may have to be bent to align properly. Once final length is determined, remove the set screw bolt and mark inner reach rod through the set screw bolt hole. Unbolt and remove inner reach rod - using a 3/8" bit drill approximately 1/4" deep into the inner reach rod at your mark to create a stop for the set screw bolt to embed into. Reassemble the telescoping reach rod and tighten set screw bolt. Secure all tank saddle and reach rod hardware with nuts, washers and lock washers included with hardware.

Figure 11

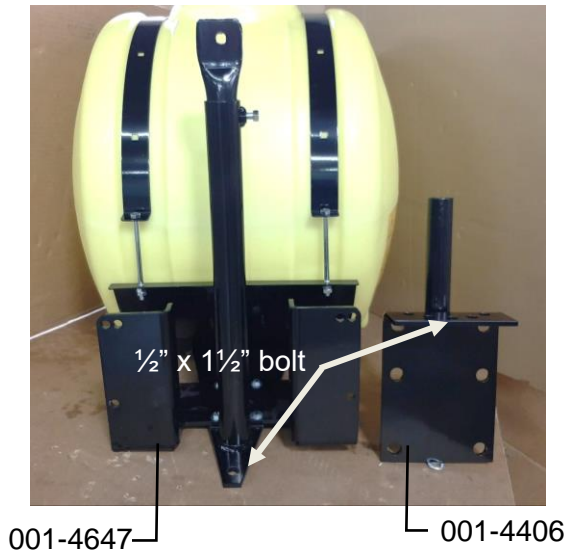
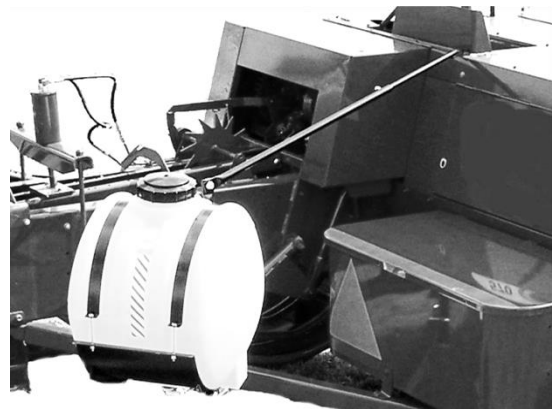


Figure 12



Mounting Control Box & Pump Plate

Locate the 700 series IPM Control box (006-7671SS) from the controls package box. Pump plate mounting bracket (001-4647) comes attached to the tank assembly (Figure 11 above). Mount the IPM Control to the pump plate shield by using hardware included in the controls package box. The IPM Control box will mount on the pump plate as shown in Figure 14. Attach pump plate assembly to pump plate mounting bracket with hardware supplied within the pump plate box.



IPM Control Box



Figure 14

Model 750

Locate parts bag 7. Attach legs part (001-4703B) to the tank saddle with 3/8" x 1" bolts, flat and lock washers. The legs will attach on top of the bale chamber in front of the hydraulic compression area shown in Figures 1 & 2. You will need to drill four 1/2" (13 mm) holes on top of the chamber to mount the tank and frame. Clamp legs on top of the bale chamber, mark the holes and drill. The 1/2" x 1-3/4" allen head carriage bolts will be inserted through the bale chamber along with flat washers so that the carriage head will be inside of the chamber. Secure the allen head carriage bolts with 1/2" nuts, flat and lock washers. Mount support bracket (001-4424C) at these locations. Two tie models only (Figure 3).

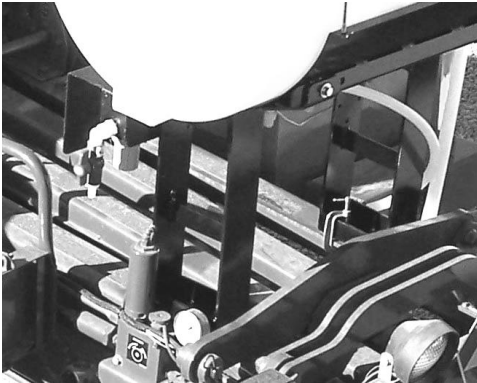


Figure 1

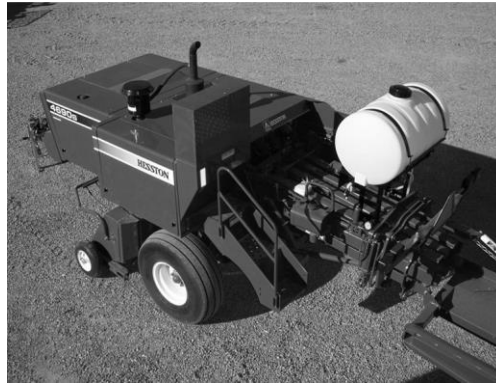


Figure 2



Figure 3

750 Pump Manifold Installation



Figure 4



Figure 5

1. Locate parts bag 8.
2. Locate the two mounting holes as shown in Figure 4.
3. Connect the pump plate mounting bracket and pump assembly (001-4646X), shown in Figure 5
4. Using two 3/8" x 1 1/4" bolts, nuts, locks, and flat washers to the saddle.

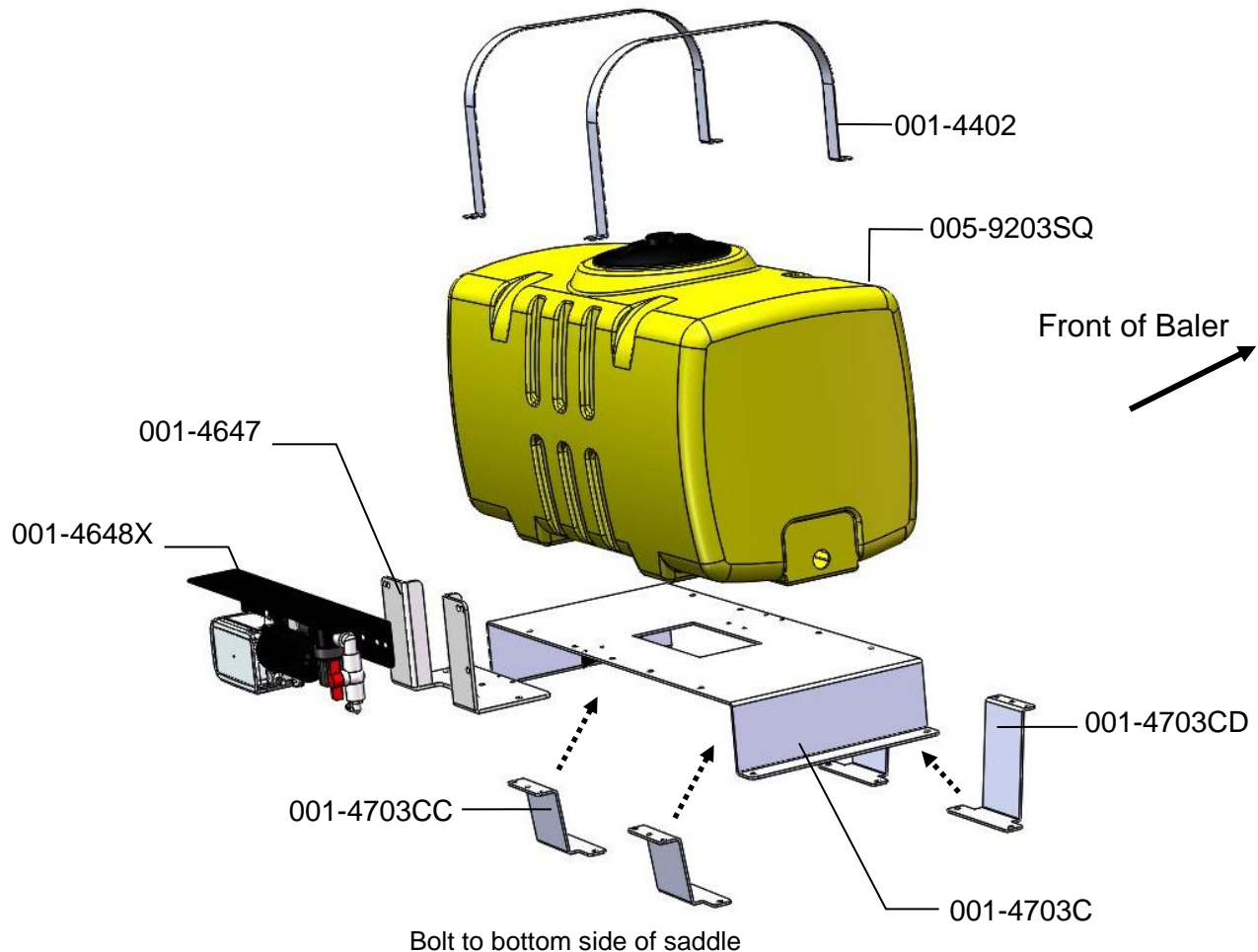
Model 751

Locate parts bag 12. Mount the two long strap bases (001-4703CD) to the bottom side of the saddle (001-4703C) front edge. Note: This is the side that has a 2" (5 cm) diameter hole in one of the sides. Use four 3/8" x 1-1/4" bolts, washers, locks, and nuts to secure. Mount the two short bases (001-4703CC) to the bottom side of the saddle's back edge. Use 3/8" x 1-1/4" bolts on the outside holes. Leave the inside holes open for the installation of the pump plate mount.

Install the "U" shaped pump plate mount (001-4647) to the top and back edge of the saddle. Secure with two 3/8" x 1-1/2" bolts on the outside that also go through the short mounting bases as listed above. Place one 3/8" x 1-1/4" bolt in the middle. Secure with washers, locks and nuts.

Install the tank fitting into the bottom of the tank (003-EL3412) and mount the tank on top of the saddle and between the strap bases. Locate the two straps (001-4402). Position the straps over the top of the tank and secure with four 5/16" x 4-1/2" bolts and eight nuts. All of the strap bolts need to have double nuts.

Connect the pump plate mounting bracket (001-4648X) using two 3/8" x 1" bolts, nuts, locks, and flat washers to the U shaped bracket (001-4647).



Model 751 (continued)

Mount the tank as shown below on the right side of the baler. The side tank fitting will be facing the right side of the baler. The pump plate assembly will be at the back of the baler. Place the tank on top of the baler and open the front access door (Figure 1).

Position the tank so that the front access door can be lifted open and locked in place. Line up the side of the tank saddle closest to the plunger with the bolts on top of the hood. Remove the two bolts, line saddle up with existing holes, and secure with new M8 x 30 bolts, flat washers, and locks. The back access door will be held open with the door strap. Mark and drill two 3/8" (10mm) holes on the top of the baler for the other open holes in the saddle to attach, secure with two 8mm x 30mm bolts, locks, flats, and nuts.

Before drilling, verify that the hole placement will not interfere with any baler operation.

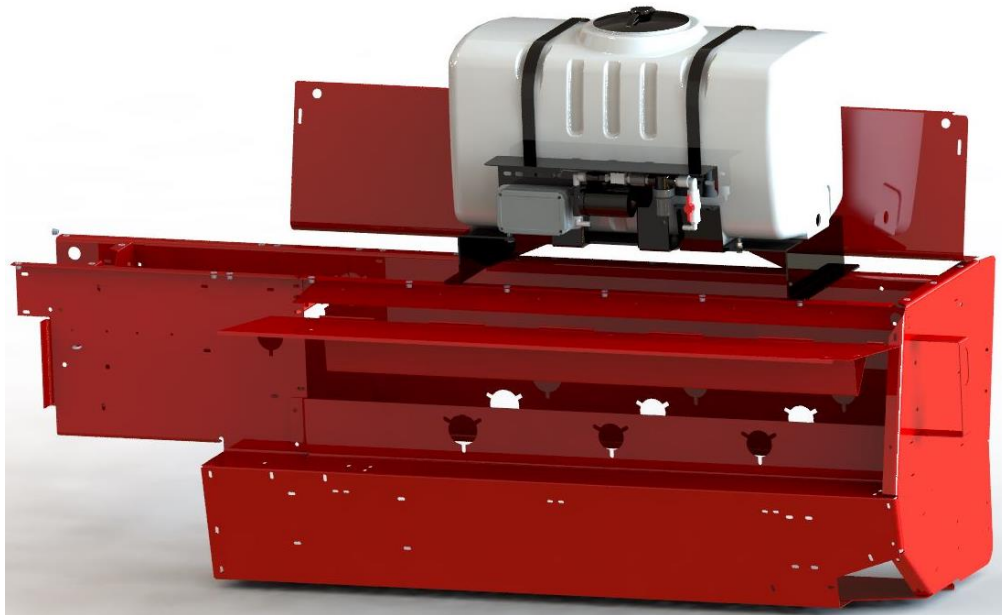


Figure 1

Drain Fill Line Installation – Model 751

Locate parts bag 1. Thread 3/4" (19mm) elbow fitting into end of tank (003-EL3434). Run 3/4" (19mm) 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" self-tapping screws and flange nuts. Connect valve assembly to other end of hose. Place hose clamps on both ends. Secure hose to frame using zip ties. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly.



Installation of Drain Fill Kit

Model 744 - Top Mounted Tank

Using parts bag 1, locate the pre-drilled hole at the front of the bale chamber (Figure 1). Secure valve assembly to baler using 5/16" x 3/4" carriage bolts (Figure 2). Thread 3/4" (19mm) elbow fitting into tank, cut hose to correct length and connect to valve assembly. Secure with hose clamps on both ends (Figure 3).

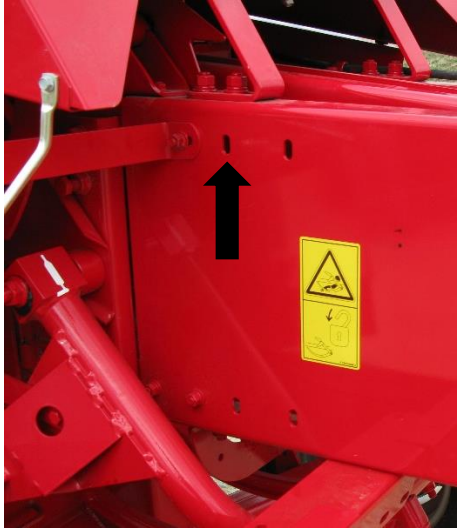


Figure 1



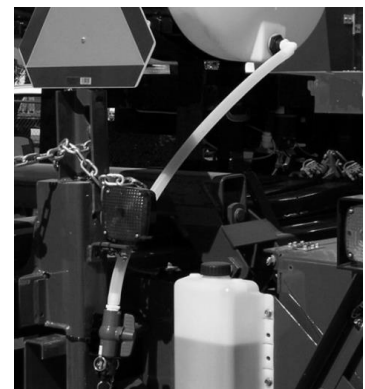
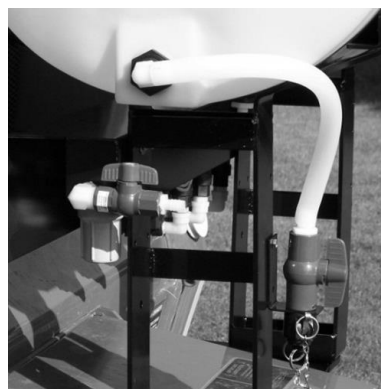
Figure 2



Figure 3

Model 744 - Side Mounted Tank

Locate parts bag 1. Install the straight fitting (003-A3434) or elbow fitting (003-EL3434) into the side fitting in the tank. Drill two 5/16" (8mm) holes using the valve holder (001-6702H) as a template on the right side of the baler in a suitable location. Mount the valve holder with two 5/16" x 1" self-tapping bolts and flange nuts. Attach the 3/4" (19mm) cam coupler to the 3/4" (19mm) ball valve through the valve holder. Insert the straight fitting (003-A3434) into the ball valve. Cut the 3/4" (19mm) hose to length secure on both sides using hose clamps. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly.



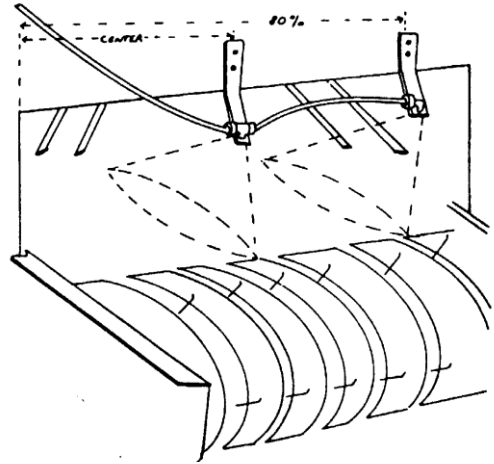
Model 750

Locate parts bag 1. Install the straight fitting (003-A3434) or elbow fitting (003-EL3434) into the side fitting in the tank (Figure B). Drill two 5/16" (8mm) holes using the valve holder (001-6702H) as a template on the right side of the baler above the tire. Mount the valve holder with two 5/16" x 1" self-tapping bolts and flange nuts. Attach the 3/4" (19mm) cam coupler to the 3/4" (19mm) ball valve through the valve holder. Insert the straight fitting (003-A3434) into the ball valve. Cut the 3/4" (19mm) hose to length secure on both sides using hose clamps. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly.

Placement of Spray Nozzle Assembly

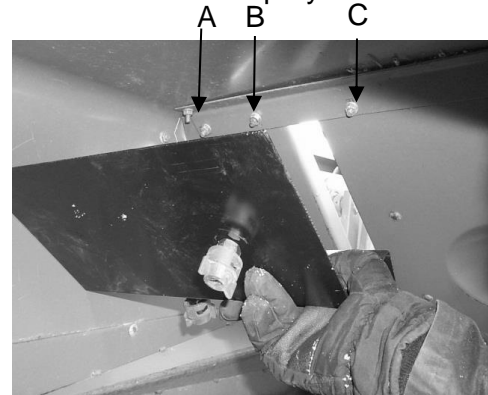
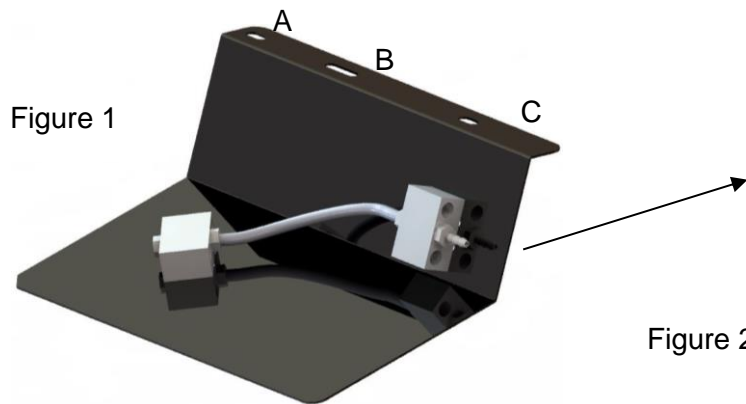
Install Kit 4409C

1. Mount the left-hand nozzle strap (it has an elbow fitting and a silver tip) so that it is approximately 80% across the width of the pick-up head. Example: if the head is 60" wide, locate the nozzle 48" from the right side of the head (60"x 80").
2. Mount the right-hand nozzle strap (it has a tee fitting and a silver tip) in the center of the pickup head.
3. Bend the nozzle bar in so that the tip is pointed in toward the bottom of the gathering chamber and about 16" above the sheet metal base of the chamber. Twist the nozzle so the tip is tilted 45 degrees from horizontal.
4. One 1/4" lines will need to be run from the hose manifold to the nozzle straps.



Install Kit 4410C

Install Hoses before installation of shield. Bolt the shield assembly (Figure 1) up under the baler's hood. Remove 3 bolts shown in Figure B (labeled A, B, C) on the baler and replace with hardware in kit to fasten lip securely in place. One 1/2" line will need to be run from the hose manifold to the spray shield.



Install Kit 4412C

Align the shield, with brackets attached, to the front sheet metal 10"-14" (25 – 36 cm) from the edge of the knife in the baler chamber. The spray pattern should be aimed towards the middle of the baler chamber. Verify the mounting location will not interfere with any baler functions. Mark and drill 4 holes with a 10 mm drill bit. Install the shield using 3/8" x 1-1/4" bolts, flat and lock washers, and nuts.



Install Kit 4415C

Locate the hay guard directly above the bale chamber. This install can be done with the hay guard in the baler, but it is recommended removing it for ease of installation. Consult your dealer for guidance.

Installation of Spray Shield

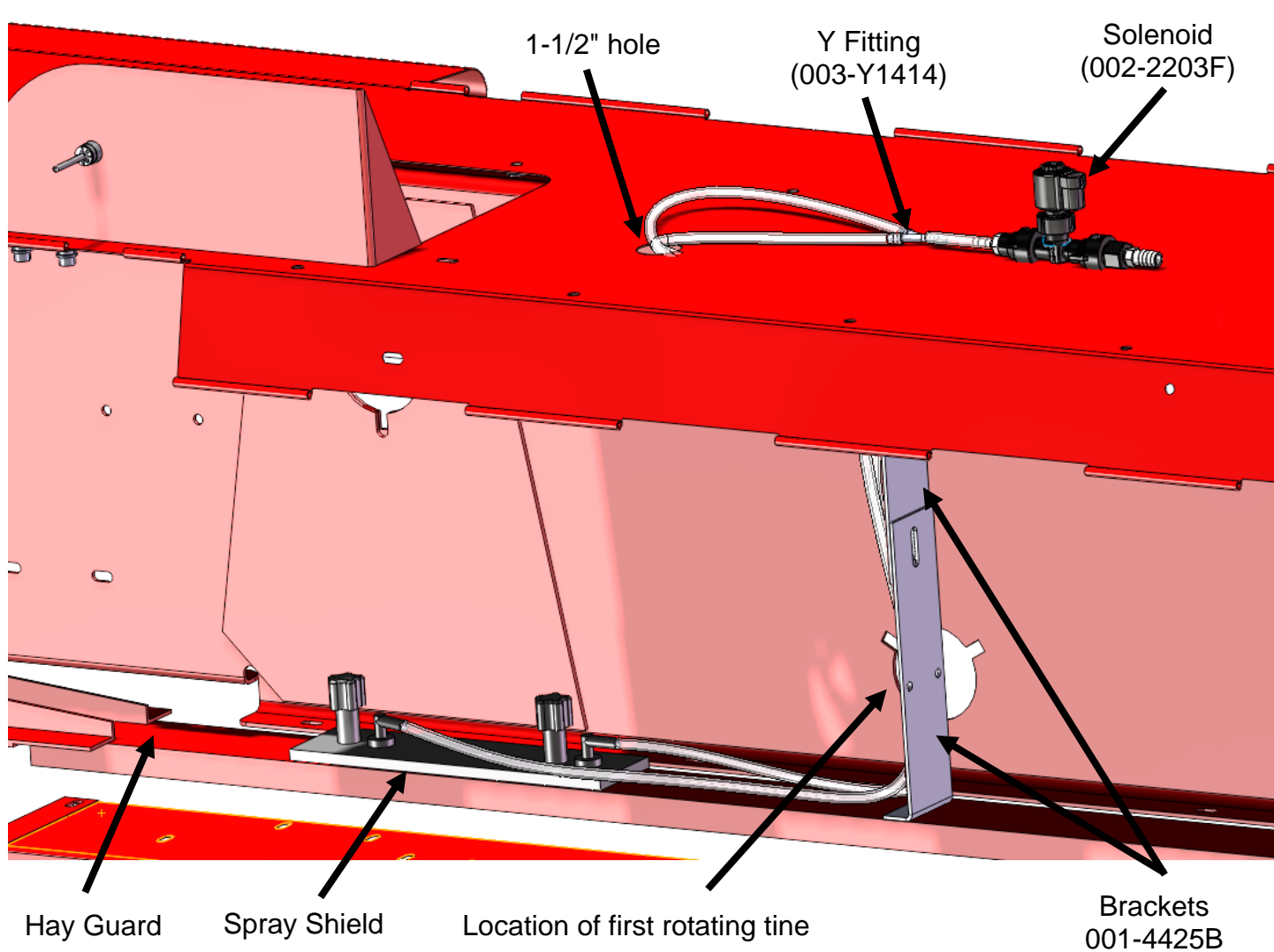
1. Mark a point 9-1/4" (24cm) from the knife on the hay guard and draw a squared line across width.
2. Remove hay guard from baler if possible. Mark the top and bottom of the hay guard for the correct re-installation.
3. Back out plastic drill guides from the gray spray shield until they are flush with the bottom of the spray shield. Line up the spray shield on the hay guard with the KNIFE sticker against the line just marked.
4. Center and clamp the spray shield firmly in place.
5. Using a 1/2" (13mm) drill bit, mark the location of the two 1/2" (13mm) holes to create a center mark. **DO NOT DRILL THROUGH STEEL.**
6. Remove spray shield. On the holes just marked, use a 1/4" (7mm) drill bit and drill through both pieces of steel as square as possible.
7. Insert two 1/4" x 2" button head cap screws through holes in the bottom of the hay guard. The head of the screw will need to be down (in the chamber). Secure with nylon lock nut on top side.
8. Replace spray shield and secure with the hold-down knobs.
9. Drill out the two holes with drill guides installed with a 1/4" (7mm) drill bit. Drill through both pieces of steel.
10. Remove the spray shield and use a 1-1/2" (38mm) hole saw, drill the two holes through the TOP STEEL ONLY.
11. Drill out the bottom holes with a 9/16" (14mm) bit. Be careful not to oblong the holes. De-burr any metal filings left around the three holes on both sides of the hay guard. Use touch-up paint on bare surfaces to preserve the metal and the baler.
12. Remove plastic drill guides from the shield and thread the elbow completely into the spray shield.
13. Thread both elbows into the shield. Install the high output tips (004-1104-SS) onto the elbows by securing with nozzle caps (003-BC12).
14. Back the threaded fittings out as far as possible. Place the shield on the hay guard and secure by pressing down. Secure the spray shield with the hold-down knobs.
15. Thread both elbows down until they touch the bottom metal and align as needed for routing the hoses.
NOTE: Tips should protrude slightly out of the bottom of the hay guard with no space between the tip and the hole.
16. Re-install hay guard onto the baler.
17. Align nozzle at 45 degree angle inside the chamber.

Installation of Hose and Support Bracket

1. If the hay guard was removed for shield installation reinstall at this time.
2. Mark a point 6" (15cm) from the first rotating tine on the center of the hay guard. Center punch this mark and drill a 1/4" (7mm) hole through both the top and bottom of the hay guard.
3. Bolt the bottom bracket (001-4425B) using 1/4" x 2" button head cap screw. Secure with a 1/4" flange nut. The head will need to be down (in the chamber).
4. Loosely install the remaining bracket (001-4425B) to the bottom bracket attaching in the middle. Level the two pieces and extend the top bracket until it reaches the top of the baler. Secure with a 1/4" flange bolt and nut.
5. Mark and drill the top hole with a 1/4" (7mm) bit. Secure with a 1/4" (7mm) flange bolt and nut.
6. Route the hoses from the pumps down the cross member of the tank is mounted on towards the right side tire. The hose will go up the right side of the baler towards to the top and center of the baler towards the hole that will be made in the next step.
7. Cut a 1-1/2" hole in the top of the baler for the hose to route through. Install the grommet once the hole is complete.
8. Install the hoses from the elbows on the shield, under the hay tine, to the bracket, and out the 1-1/2" hole in the hood of the baler. Cut hose to 10" outside the hole.

Install Kit 4415C (continued)

9. Secure hoses on the end of spray shield with two jiffy clips (008-9014) and 1/4" x 1/2" round head screw.
10. Secure the hose to the bracket with two jiffy clips (008-9014) and 1/4" flange bolts and nuts. Keep the hose in the center of the bracket.
11. Attach the Y fitting (003-Y1414) to the hoses leaving the hole in the hood of the baler. Cut 6" to go between single leg of Y fitting and pulsing solenoid.
12. Install the 1/2" hose from the pump to the straight 1/4" x 1/2" fitting (003-A1412) connected to solenoid.



View from behind the twine box with the inspection door open.

Install Kit 4416C, 4417C, 4418C & 4485C

On baler tongue above center of the baler (Figure 1), install spray shield holders (001-4424B) on both sides of tongue using pre-drilled holes (Figure 2). Securing each with one 3/8" bolt. Do not tighten bolts. Place the spray shield (001-4424A2) on the shield holders using two 3/8" bolts, washers, lock and nuts. Spray shield should spray toward back of pickup, between augers, in area before crop enters baler (Figure 3). When angle of tips is correct, tighten shield holder bolts. Route hose to hose manifold.



Figure 1



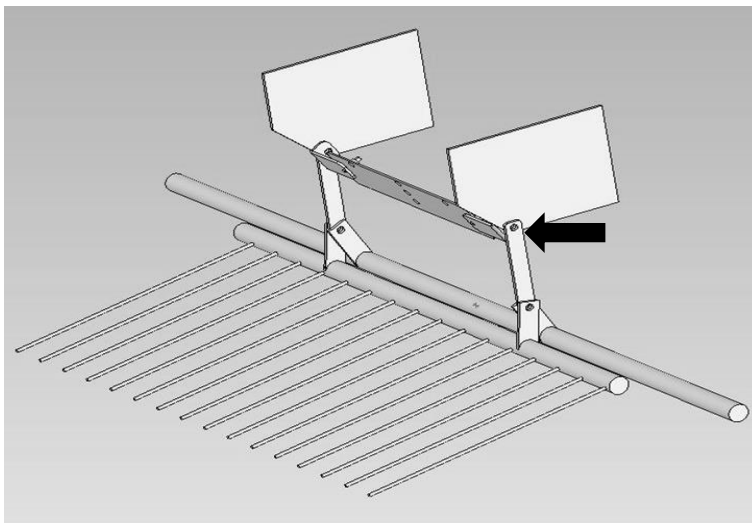
Figure 2



Figure 3

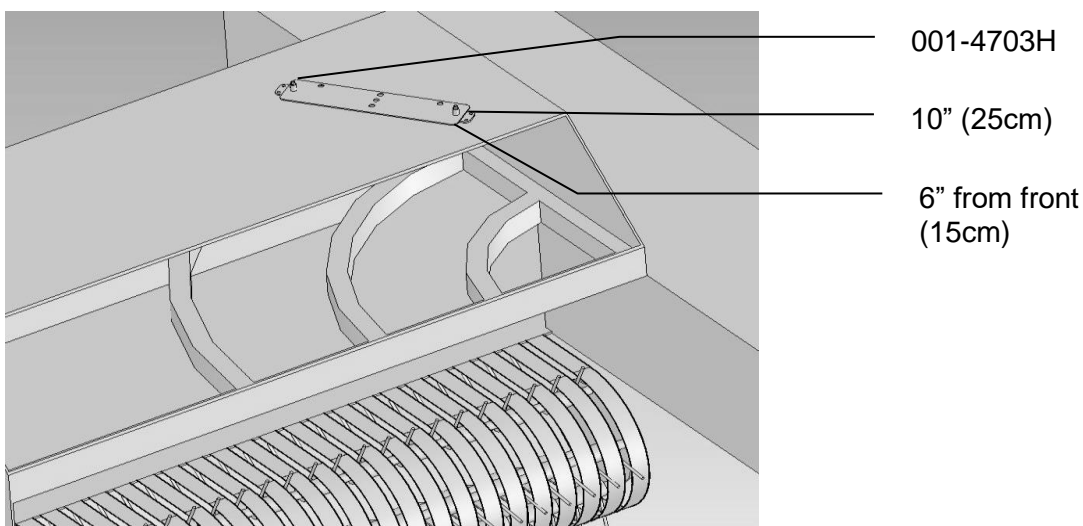
Install Kit 4502C

The shield for your baler will mount in the throat of the baler as shown above. Remove nut and bolt on both sides of baler, shown below. Install shield holders (001-4703I) with 1/2 x 2" bolts, nuts, locks and flat washers. Do not tighten these bolts until the shield is properly aimed. Aim the shield at bottom of the pickup head at the point where stuffer fingers connect with hay (between the two augers) and make sure the bushing is not removed. Once the shield is in place the nuts may be tightened down.



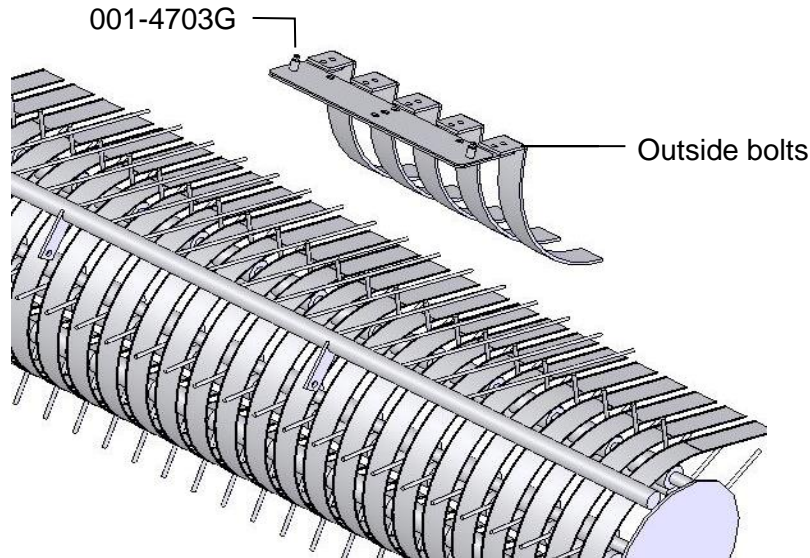
Install Kit 4506C

The shield for your baler will mount on top of the sheet metal directly above the pickup head shown in the picture below. Mount shield holder (001-4703H) on top of metal 6" (15cm) from the front of the baler and 10" (25cm) from the side of the baler. Attach this holder with 1/4 x 1 1/4" self-tapping bolts. Place shield on top of holder and rotate the shield to a 45-degree angle. Mark the location of the next holder's position and install. Four holes will need to be drilled below the tips using a 3/4" (19mm) hole saw or bit.



Install Kit 4507C

The shield for your baler will mount on the wrap guard as shown in the picture above. Remove the two outside bolts on each side of the wrapper guard. Place bracket 001-4703G so pins are facing up and bolt through with 3/8 x 1-1/2" into bracket 001-4703G, through wrap guard, and into threaded holes on baler frame that the bolts were removed from.



Installation of Plumbing

A. Intake

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

B. Discharge

Route the 1/2" hose from the pump output toward the front of the baler and connect to the solenoid assembly. Secure the solenoid assembly and hose along baler, positioning the solenoid as close to the spray tips as possible- in an accessible location away from the incoming forage. Connect the 1/4" hose to the outgoing side of the solenoid to tip assembly. Attach solenoid wire harness to solenoid and connect to main baler harness plug labeled 'SOL-1'.

Installation of End of Bale Sensor

Mount the 006-7401 sensor to the mounting bracket 001-4648SI for AGCO as shown below (Figure 1). Case IH, New Holland, & John Deere and other balers will use bracket 001-4648SS. Mount the assembly on the right side of the baler chamber. The face of the sensor needs to be parallel to the arm attached to the needles (similar to Figure 2). Mount the sensor 5-8" from the pivot point, in a well-suited place, to reduce damage to the sensor by needle arm when returning to the home position. Mark and drill two 3/8" (10mm) holes. Install the sensor using two 5/16" x 1" allen head bolts, locks, and nuts. The end of the sensor needs to be no greater than 1/4" (7mm) away from the needle arm. Tighten nuts on sensor after adjustment.

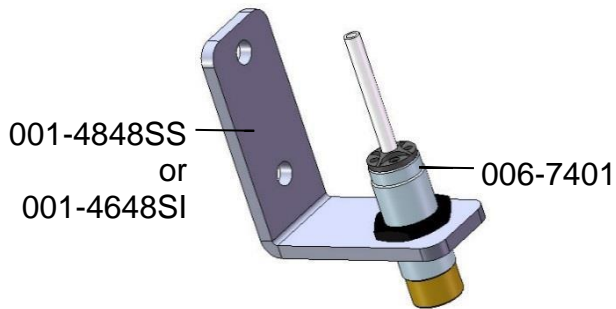
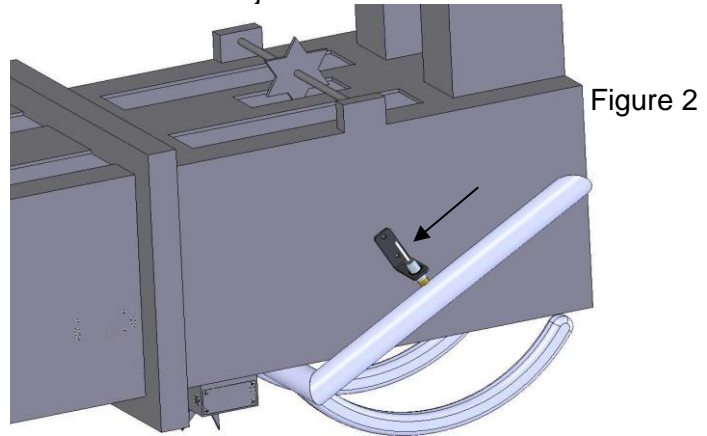


Figure 1



Installation of Star Wheels

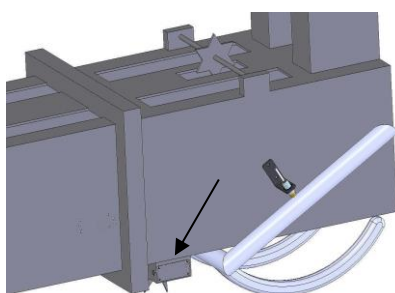
The pair of star wheels will need to mount on the bottom side as close to the front of the bale chute as possible and at least 3/8" (10mm) away from any metal. They will need to maintain a safe distance away from the twine.

The star wheels will require two holes to be drilled per block. When drilling make sure to keep the wheel square to the bale chamber. Any angle will cause stress on the wheel and will eventually cause the wheel to work itself out of the block. Some balers may require a notch cut on the bottom of the bale chamber to mount the star wheels in parallel and as close to the front of the chamber as possible- Star Wheel Installation template reference is located in back of this manual.

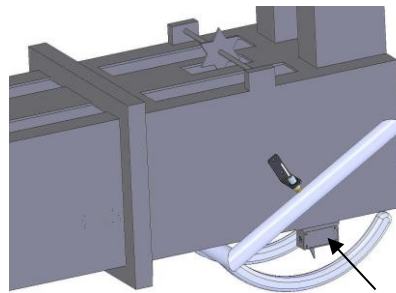
Use the supplied bolts and place the carriage head inside of the bale chamber followed by lock and nut. Next attach the star wheels to the bolts followed by flat washer, lock washer and nut.

The star wheel with the 6-pin plug will need to be placed on the left-hand side of the bale chamber, rotating the star in a clockwise direction as bales move through the chamber.

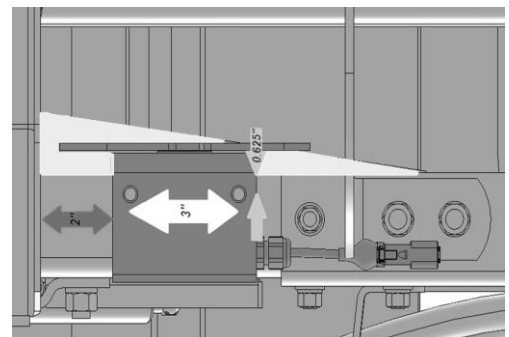
Connect moisture harness to star wheels and run the harness along the baler frame towards the ISO Pump Module (IPM) controller harness.



Model 751

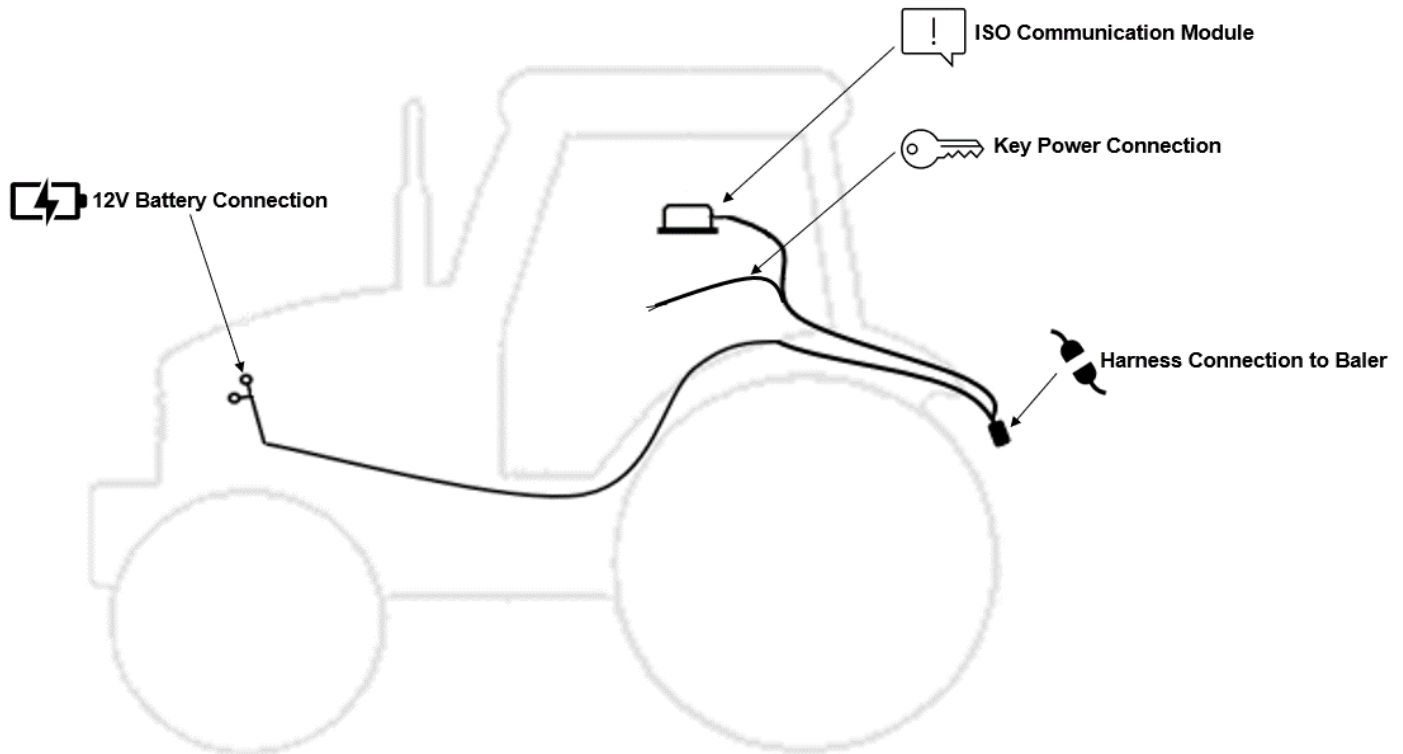


Model 744, 745 & 750



Some balers may require notching to allow for star wheel clearance- see template for details

Tractor Setup



The general tractor setup of the 700 Series applicator can be seen above. The main harness of interest is the tractor power/communication harness (006-7651C). This harness will connect at the tractor battery, to the ISO Communication Module (ICM) mounted in the cab, a keyed power connection point, and connect at the hitch area to the baler power/communication harness (006-765B). View below to see highlighted installation instruction:



12V Battery Connection

The 12V battery connection must be at the tractor battery. Connection to alternative locations such as an accessory port can cause problems with applicator system.

MUST BE CONNECTED DIRECT TO TRACTOR BATTERY TERMINALS



ISO Communication Module

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



Key Power Connection

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



Harness Connection to Baler

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

Display Options

Optional Harvest Tec Display

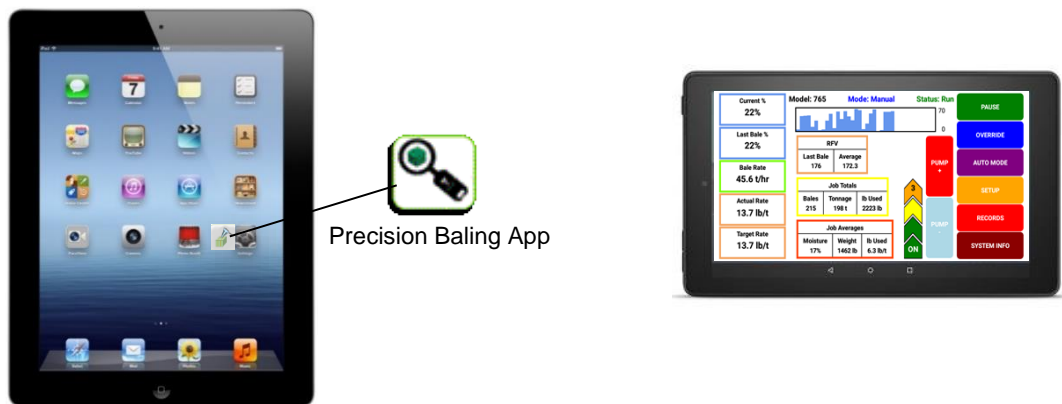


The 700 series Harvest Tec Display will allow you to set your real time baling parameters to ensure the most precise application to every bale. This is done by utilizing the improved touch technology to select objects, enter data, and swipe through operational screens.

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.

Wiring Diagram – 744, 745, 750, 751 Series

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

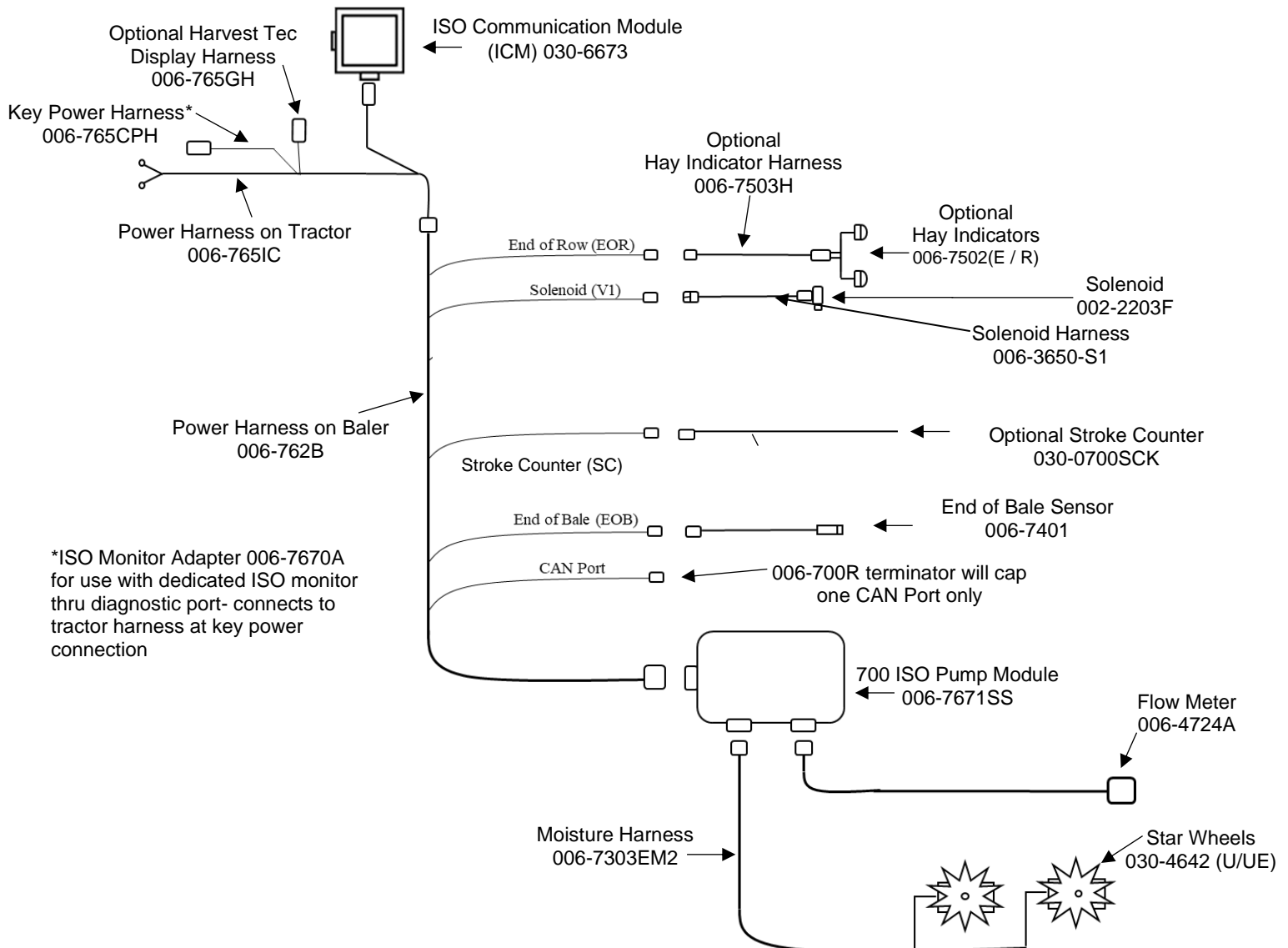
B. This unit will not function on positive ground tractors.

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 (006-762B) 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 (006-762B) to the EOB Sensor (006-7401).
6. Attach the Solenoid (SOL 1) connections on the baler harness (006-762B) and to the solenoids (002-2203F).
7. Attach the Flowmeter (006-4724A) to the Pump Module connection on pump plate assembly.
8. Attach the rubber molded connector on pump plate to the Pump (007-4120DE).
9. Attach star wheel (030-4642U/UE) connection to the pump module
10. Ensure 006-700R terminator is connected to CAN/IDM port on 006-762B harness

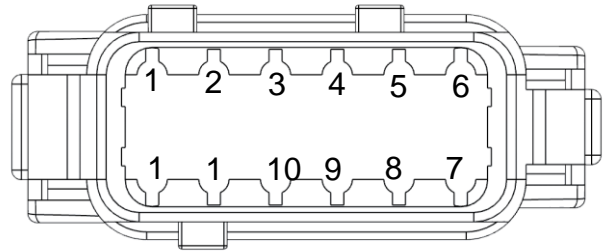


Pin Outs

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

(Deutsch Plug Number: DTM06-12SA)

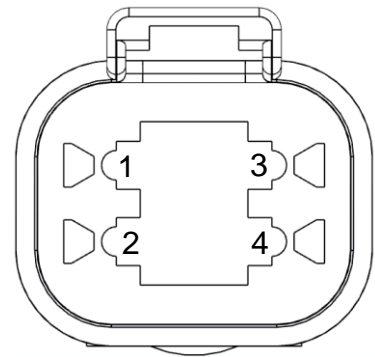
Pin 1	Red	+12V from ECU
Pin 2	Purple	Signal Wire
Pin 3	Red/White	+12V CAN X
Pin 4	Black/White	Ground CAN X
Pin 5	Orange	CAN X Hi
Pin 6	Blue	CAN X Lo
Pin 7	Green	ISO CAN Lo
Pin 8	Yellow	ISO CAN Hi
Pin 9	White	GPS Expansion 1
Pin 10	Gray	GPS Expansion 2
Pin 11	Brown	GPS Expansion 3
Pin 12	Black	Ground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



ISOBUS Plug on Tractor Harness 006-765IC

(Deutsch Plug Number: DT04-4P)

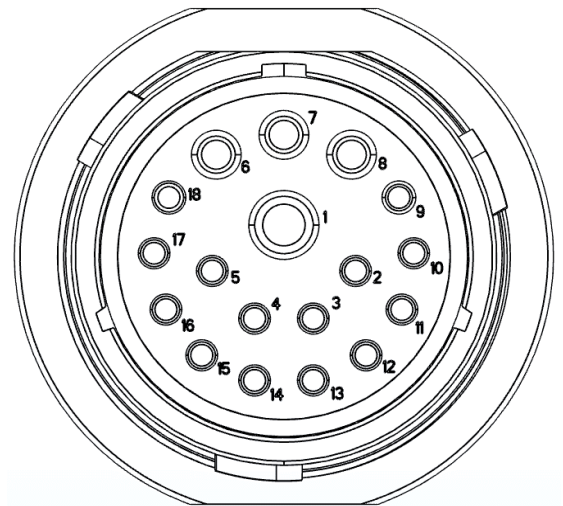
Pin 1	Red	+12V from ECU
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground from ECU



Power / Communication Tractor Harness 006-765IC at 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	----

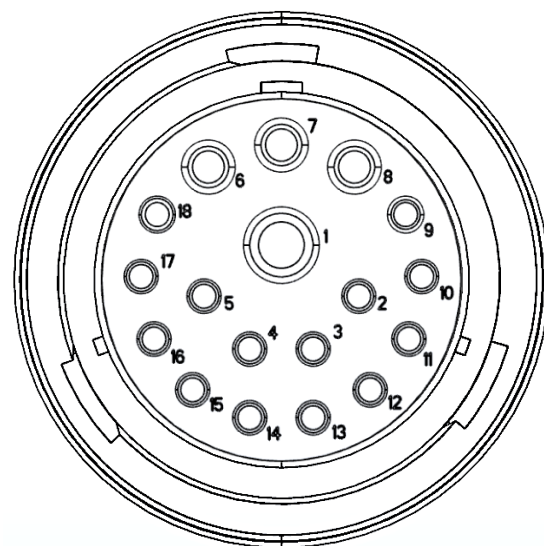


Pin Outs (continued)

Power / Communication Baler Harness 006-765B at Baler Hitch IPM

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

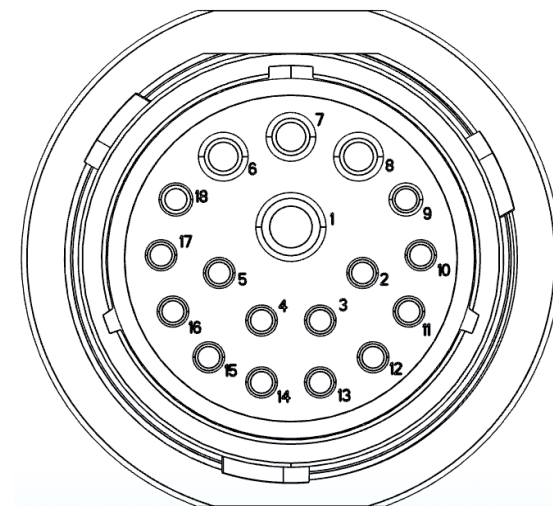
Pin 1	Not Used	----
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Red	+12V Power to ECU
Pin 5	Black	Ground to ECU
Pin 6	Red	+12V From Battery
Pin 7	Not Used	----
Pin 8	Black	Ground From Battery
Pin 9	Not Used	----
Pin 10	Orange/White	+12V Power to EOR
Pin 11	Not Used	----
Pin 12	Not Used	----
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 006-765B 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 006-765B

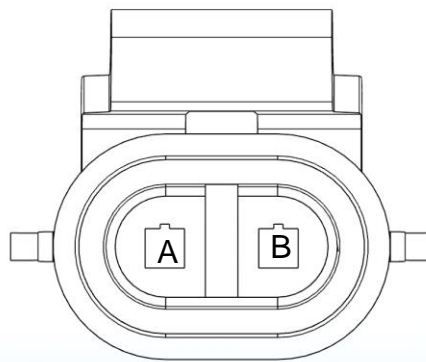
(Deutsch Plug Number: APTIV 12052641)

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

Solenoid 2 Plug on Baler Harness 006-765B

(Deutsch Plug Number: APTIV 12052641)

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

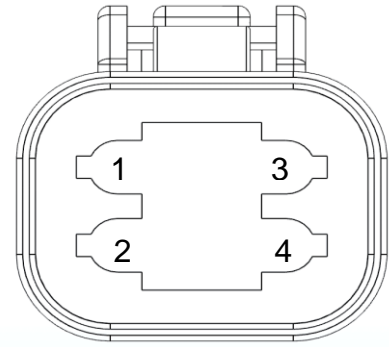


Pin Outs (continued)

CAN / IDM on Baler Harness 006-765B

(Deutsch Plug Number: DT06-4S)

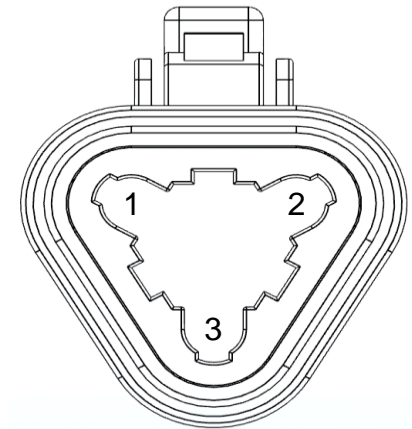
Pin 1	Red	+12V to Solenoid 2
Pin 2	Yellow	ISO CAN Hi
Pin 3	Green	ISO CAN Lo
Pin 4	Black	Ground to Solenoid 2



End of Bale Sensor Plug on Baler Harness 006-765B

(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 006-765B

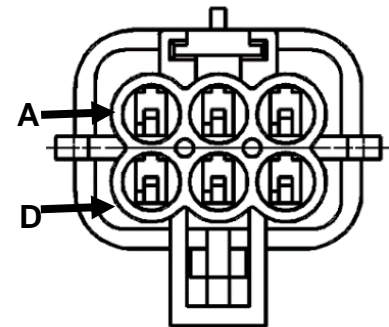
(Deutsch Plug Number: DT06-3S)

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 006-765B

(Plug: APTIV 12052848)

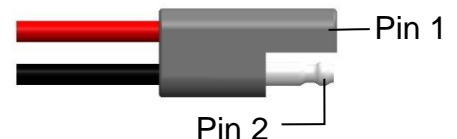
Pin A	Not Used	----
Pin B	Red	+12V Power
Pin C	Not Used	----
Pin D	Gray	Ground
Pin E	Orange	CAN Hi
Pin F	Blue	CAN Lo



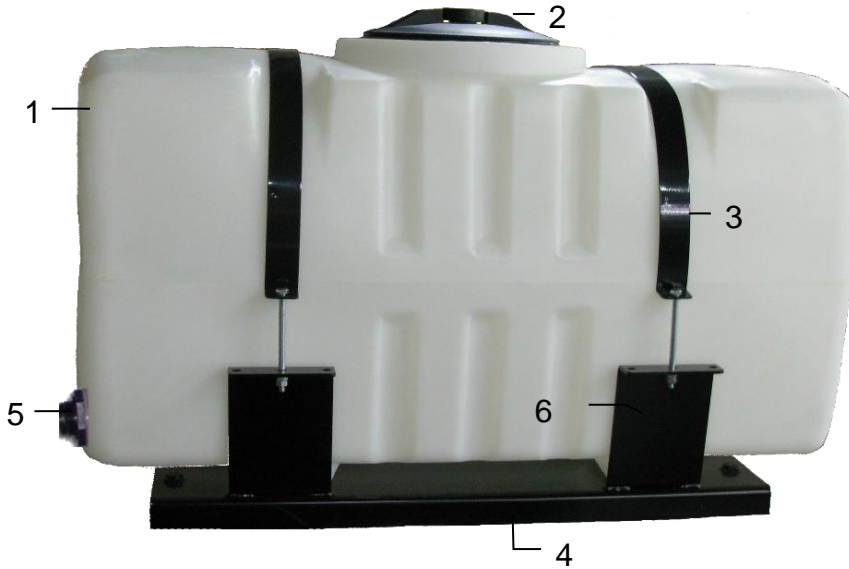
Pump Connection on 700 Controller Harness

(16 AWG Two-Wire Plug)

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



Parts Breakdown Model 744 Base Kit- Top Mount

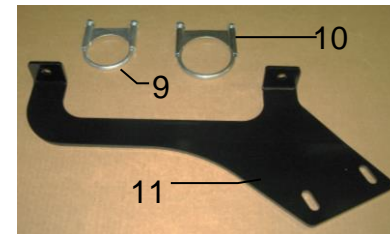
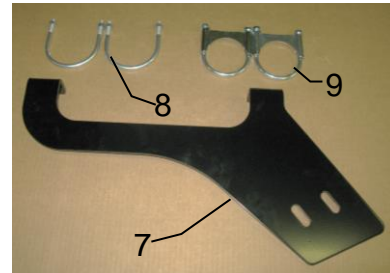
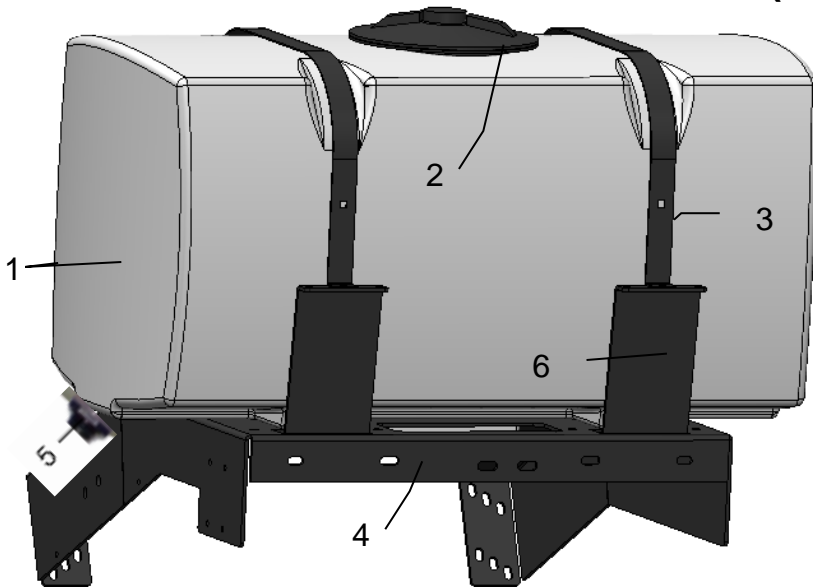


Ref#	Description	Part #	Qty
1	Tank	005-9203SQ	1
2	Tank lid	005-9022H	1
3	Tank straps	001-4402	2
4	Tank Saddle	001-4703X	1

Ref#	Description	Part #	Qty
5	Tank fitting	005-9100	1
6	Strap Base	001-4703CC	4
7	Pump Plate Mount	001-4647	1

Tank Saddle Kit (1-5) 030-0432-TK
4647 Mount Kit (6) PMP-4647MT

Model 744 Base Kit-Side Mount (4417C & 4418C Install Kits)

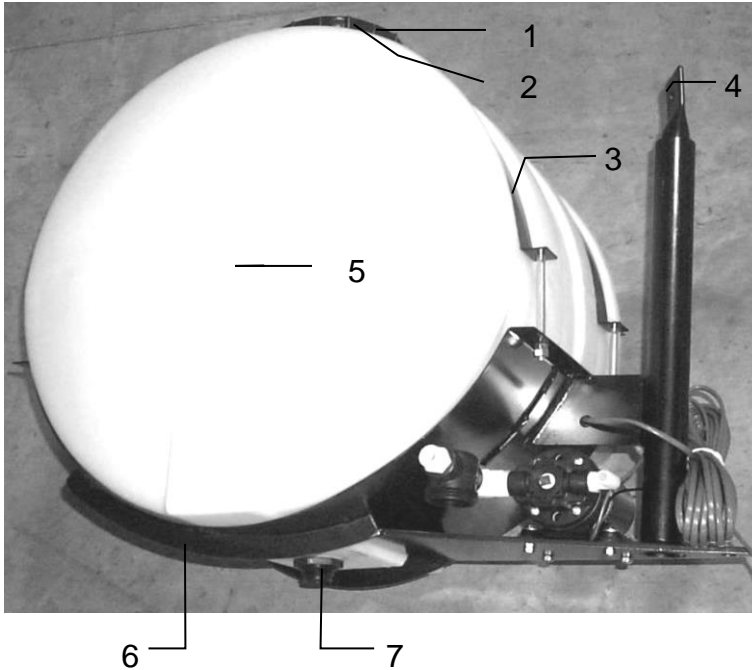


Ref#	Description	Part #	Qty
1	Tank	005-9203SQ	1
2	Tank lid	005-9022H	1
3	Tank straps	001-4202	2
4	Tank Saddle	001-4703QS	1
5	Tank Plug	003-F34	1
6	Strap Base	001-4703CD	4

Ref#	Description	Part #	Qty
7	Support Bracket	001-4703QU	2
8	3-7/8" U-Bolt	001-4703QUX	2
9	2-7/8" U-Bolt	001-4703QUB	2
10	3-3/4" U-Bolt	001-4703QTB	1
11	Support Bracket	001-4703QT	2

4417C Tank Saddle Kit (1-9) 030-0432SM-TK
4418C Tank Saddle Kit (1-6,9-11) 030-0432SM-TK-18

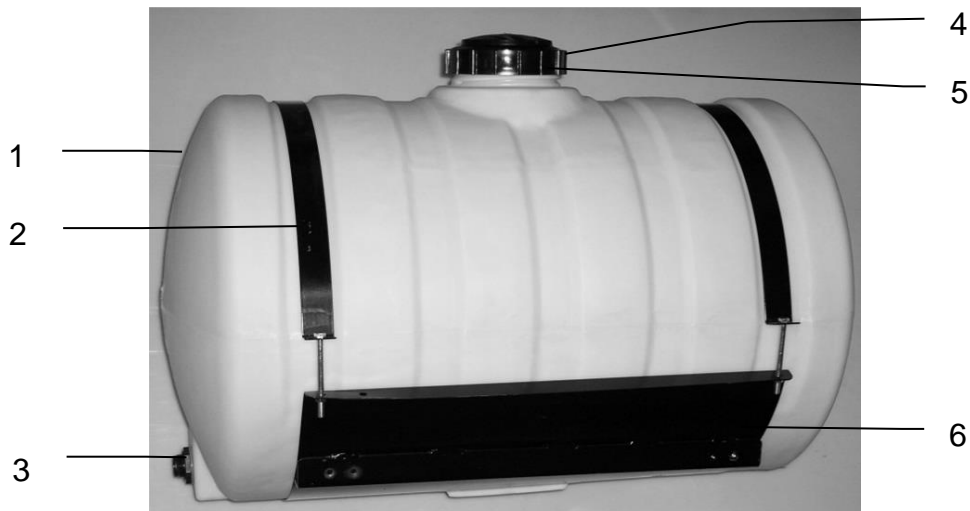
Model 745 Base Kit



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tank Cap	005-9022C	1
2	Tank Cap Gasket	005-9022CG	1
3	Tank Strap	001-4402	2
4	Stub Pipe	001-4403	1
5	Tank*	005-9022	1
6	Saddle	001-4401	1
7	Tank Fitting	005-9100	1
NP	Pump Plate		
	Mounting Bracket	001-4647	1
1-7	Tank Saddle Kit	030-0441-TK	

*25-Gal Tank Includes Bottom Fitting Only

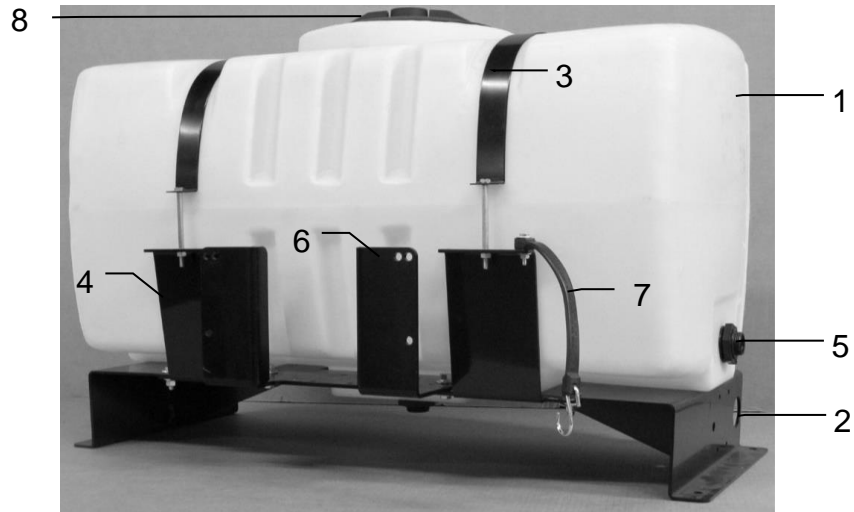
Model 750 Base Kit



<u>Ref#</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref#</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tank	005-9203	1	4	Tank Cap	002-9022C	1
2	Straps	001-4402	2	5	Tank Gasket	002-9022CG	1
3	Tank Fitting	005-9100	1	6	Saddle	001-4703	1

*55-Gal Tank Includes Side Tank Fitting Only
Complete Saddle Kit 030-0448-TK

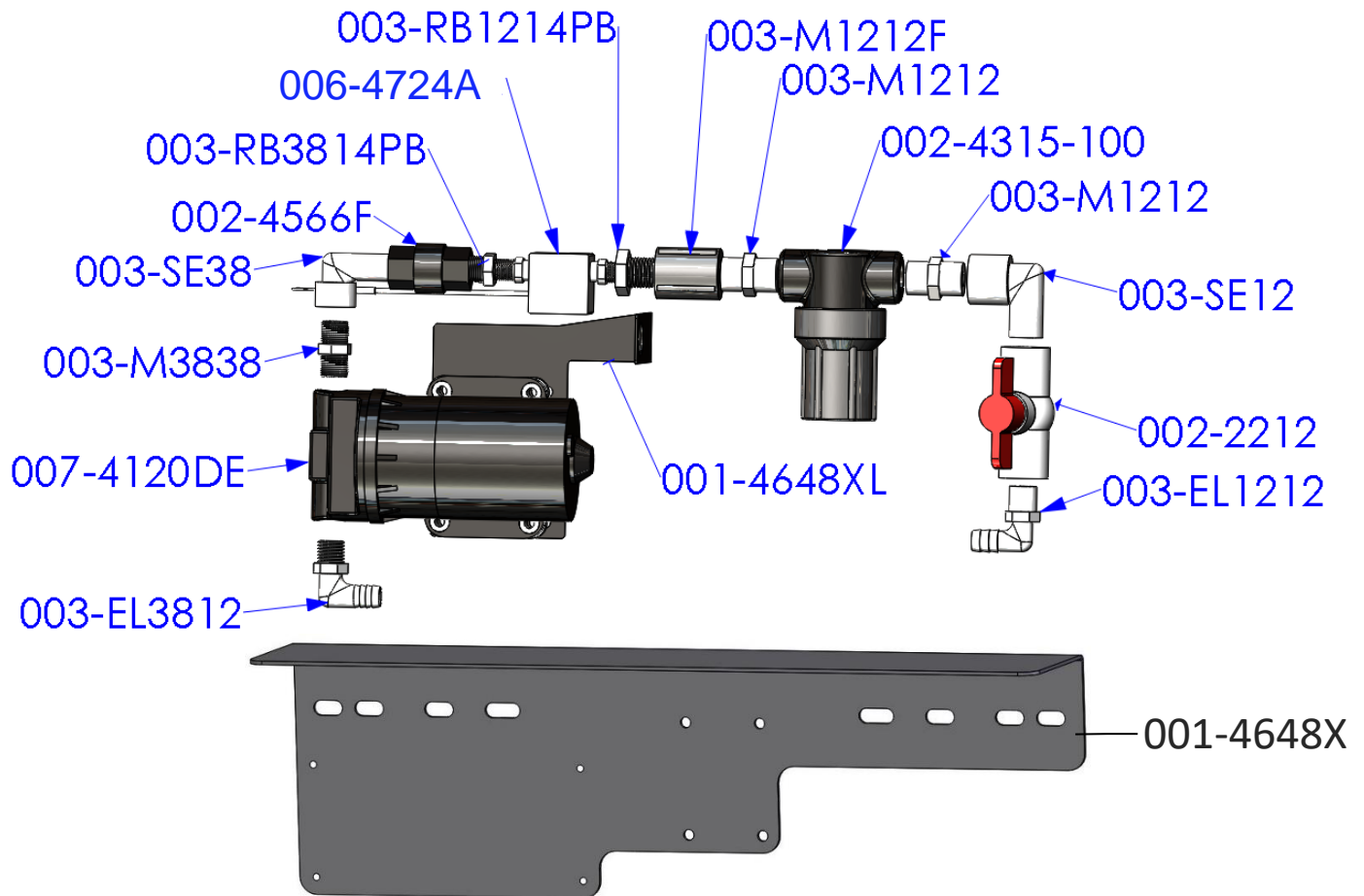
Model 751 Base Kit



<u>Ref#</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref#</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tank	005-9203SQ	1	6	Mounting Bracket	001-4647	1
2	Tank Saddle	001-4703C	1	7	Door Latch	001-4703CL	1
3	Tank Straps	001-4402	2	8	Tank Lid	005-9022H	1
4	Short Strap Base	001-4703CC	2	NP	Long Strap Base	001-4703CD	2
5	Tank fitting	005-9100	2				

*Tank Includes Cap, Bottom & Side Tank Fitting
 Complete Saddle Kit (1-5,7-NP) 030-0440-TK
 4647 Mount Kit (6) PMP-4647MT

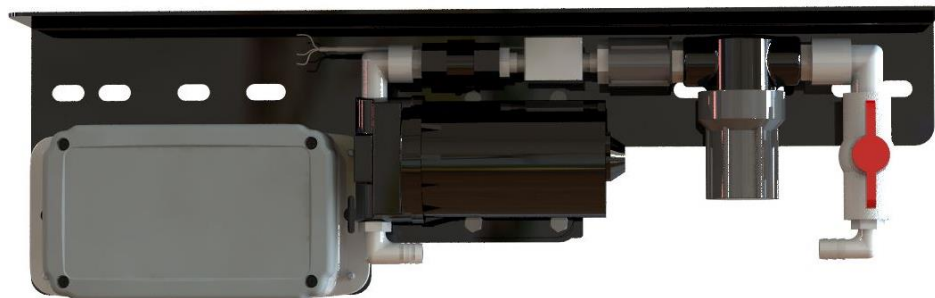
Parts Breakdown for Pump Assembly



<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	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	Not Pictured	
003-M1212F	1/2" Coupler	1	003-A3812	Not Pictured	

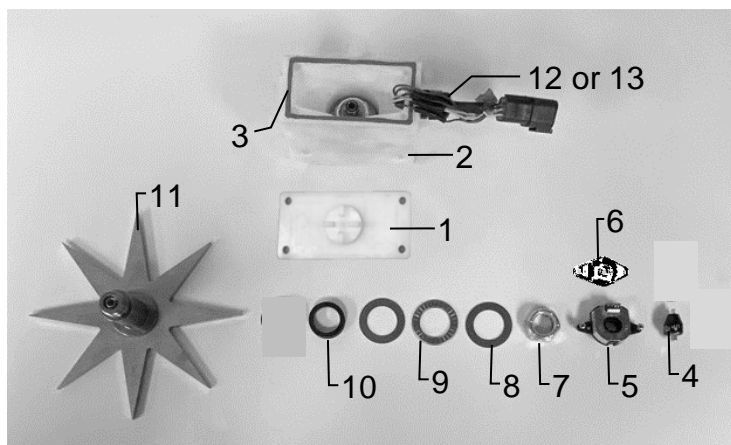
Pump Assembly PMP-7636P (001-4648X Not Included)

Completed Assembly



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

Star Wheel Sensors



<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Block Cover	006-4642UC	1
2	Star Wheel Block	006-4642UB	1
3	Star Wheel Gasket	006-4642UG	1
4	Electric Swivel	006-4642A	1
5	Encoder	006-4512E	1
6	Encoder Mount	006-4512P	1
7	Nut for Star Wheel	006-4642U	1
8	Thrust Washer	006-4642TA	2
9	Bearing	006-4642TB	1
10	Dust Seal	006-4642DSL	1
11	Star Wheel w/Insert	030-4642US	1
12	Encoder Harness (6 pin)	006-7307EM	1
13	Moisture Harness (2-pin)	006-7307M	1

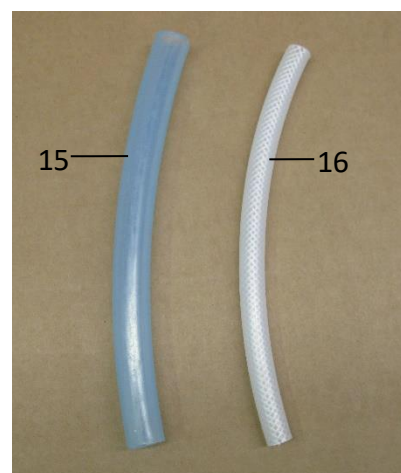
Replacement Assemblies

1-12	Star wheel assembly (w/ Encoder)	030-4642UE
1-4	Star wheel assembly (w/o Encoder)	030-4642U
7-11,13		

Moisture Harness & Hoses



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
14	Moisture Harness (744, 745, 750 Kits)	006-7307EM2	1
14	Moisture Harness (751 Kit) Long Harness	006-7307EM3	1



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
15	1/2" Hose (Tank to Solenoid)	002-9001	15ft
16	1/4" Hose (Solenoid to Tips)	002-9016	6ft
NP	3/4" Hose (Drain / Fill Line)	002-9002	10ft

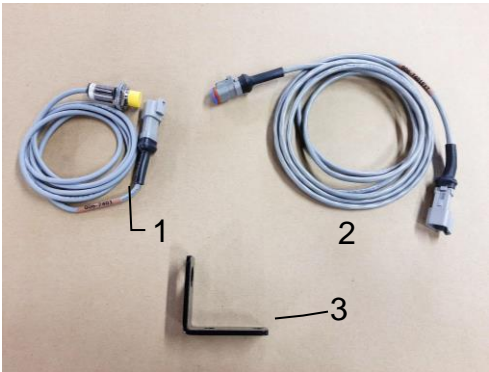
Control Box and Wiring Harnesses



Ref	Description	Part#	Qty	Ref	Description	Part#	Qty
1	Power Lead Baler 20'	006-762B	1	NP	120 Ohn Resistor	006-700R*	1
2	Power Lead Tractor	006-765IC	1	NP	Dust Plug Kit	006-765DP	1
3	Key Switch Wire	006-765CPH	1	NP	Lightning to USB-A Cable	006-6672USBC	1
4	ISO Pump Module	006-7671SS	1	NP	Optional USB-C to USB-A Communication Cable	006-6672USBX	1
5	ISO Communication Module	006-6673	1				

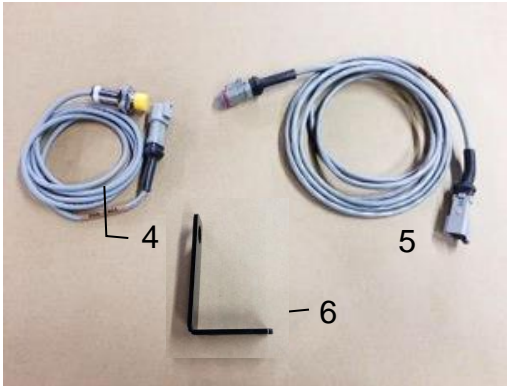
*006-700R installation on 006-762B harness is required at all times when operating the small square 700 series applicator

End of Bale Sensor Kit A



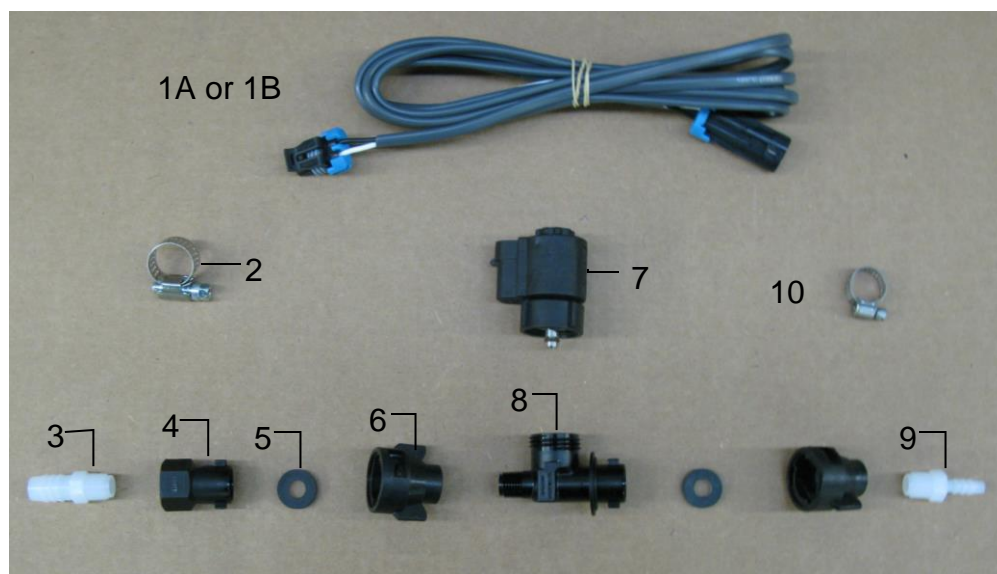
Ref	Description	Part #	Qty
1	End of Bale Sensor	006-7401	1
2	EOB Extension	006-7401EXT	1
3	End of Bale Bracket	001-4648SS	1
Complete Assembly (Ref. No. 1-3)		EOB-7SS-A	

End of Bale Sensor Kit B



Ref	Description	Part #	Qty
4	End of Bale Sensor	006-7401	1
5	EOB Extension	006-7401EXT	1
6	End of Bale Bracket	001-4648SI	1
Complete Assembly (Ref. No. 4-6)		EOB-7SS-B	

700 Solenoid Packages

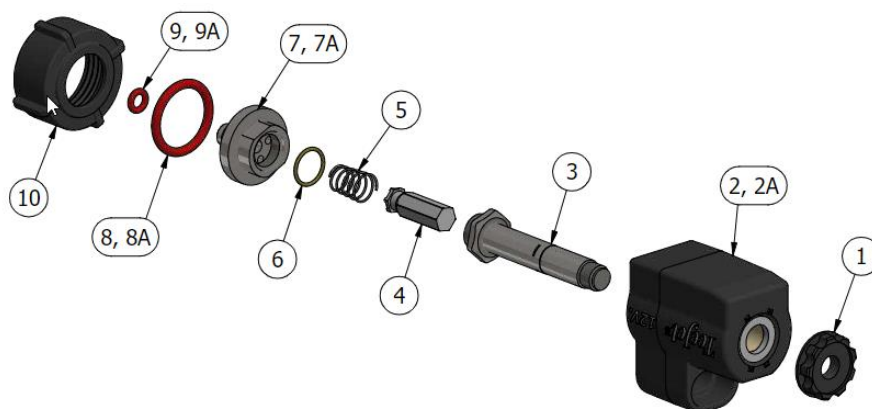


Solenoid Package A (for 751 Kit) and Solenoid Package B (for 744, 745, 750 Kits)

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

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)

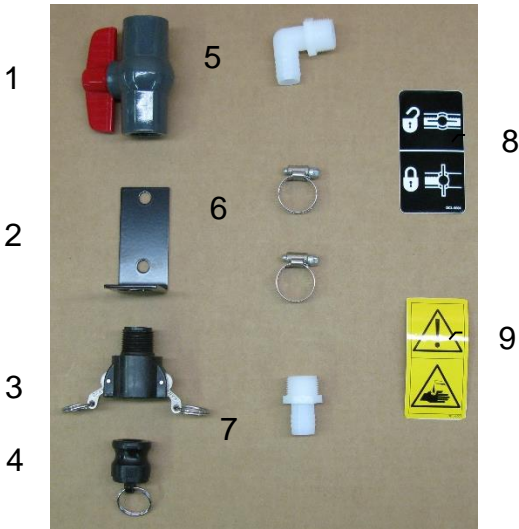


To clean solenoid valves:

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.

Parts Bag Packages and Misc.

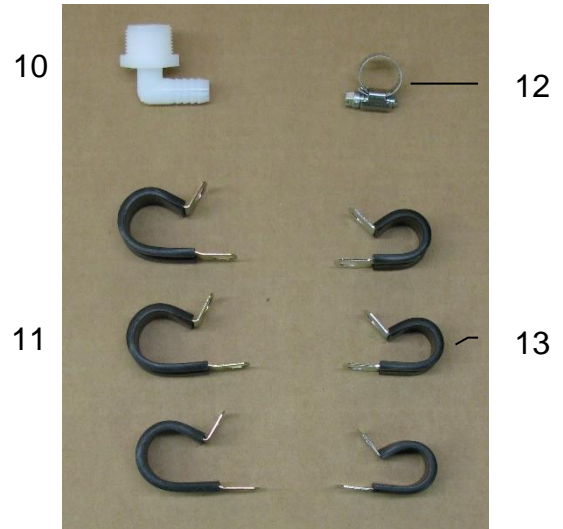
PBA-1



Ref	Description	Part #	Qty
1	3/4" Ball Valve	002-2200	1
2	Valve Holder	001-6702H	1
3	Female Coupler	002-2204A	1
4	Male Shut-Off Plug	002-2205G	1
5	3/4" x 3/4" Elbow	003-EL3434	1
6	#10 Hose Clamp	003-9004	2
7	3/4" x 3/4" Straight Fitting	003-A3434	1

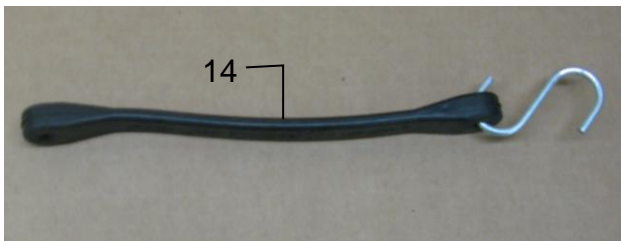
Complete Drain Fill Kit
(Includes 3/4" Hose Not
Pictured) 030-0493DFK

PBP-16



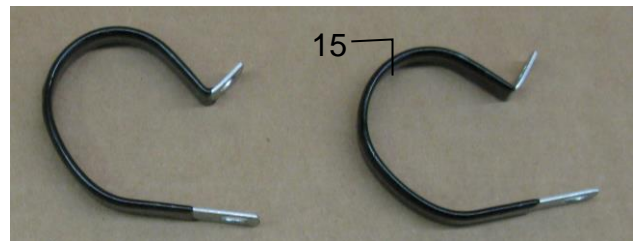
Ref	Description	Part #	Qty
8	Valve Decal	DCL-8004	1
9	Hazard Decal	DCL-8001	1
10	3/4" x 1/2" Elbow	003-EL3412	1
11	3/4" Jiffy Clip	008-9010	3
12	#6 Hose Clamp	003-9003	1
13	Small Jiffy Clip	008-9009	3

PBP-12



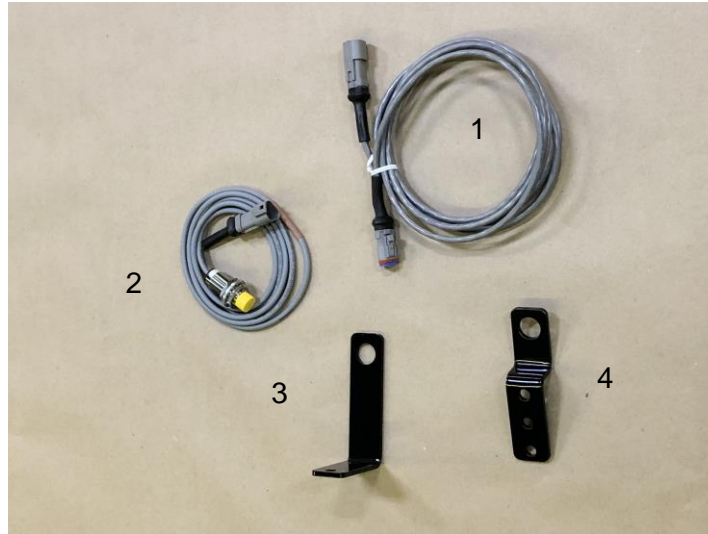
Ref	Description	Part #	Qty
14	Door Latch	001-4703CL	1

PBP-17



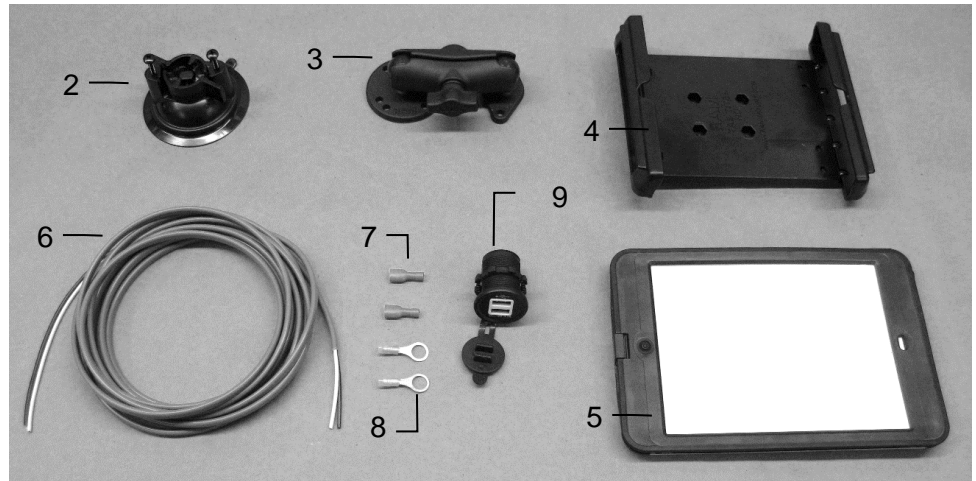
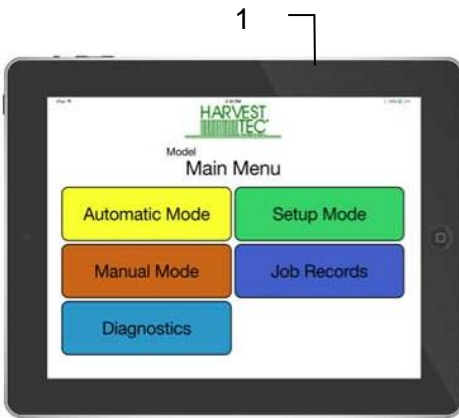
Ref	Description	Part #	Qty
15	Vinyl Clamp	008-9013	1

Optional Stroke Counter Kit 030-0700SCK



<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	10' EXT HARNESS	006-7401EXT	1	3	SC BRACKET INLINE SSQ	001-4648SI	1
2	SENSOR W/DEUTSCH PLUG	006-7401	1	4	BALE SENSOR BKT	001-4648RB	1

Optional iPad Display Kit



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		

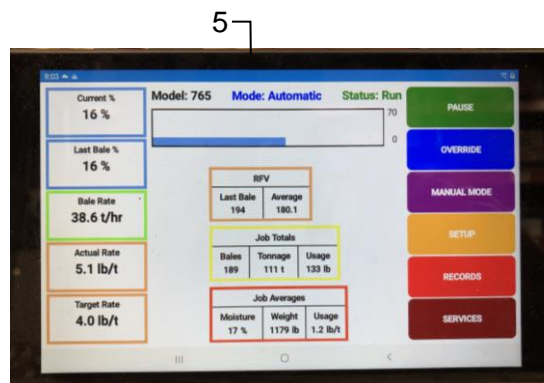
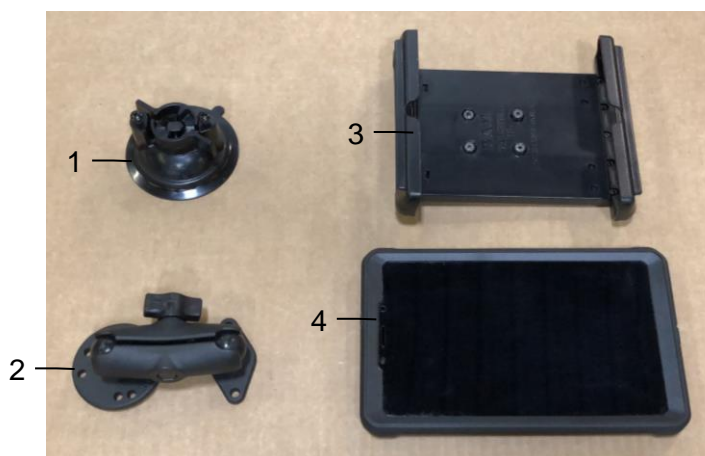
12V Power Harness Installation Instructions (included with Mounting Kit Only)

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 Android Display Kit (030-1670DK)



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Suction Cup Mount	001-2012SCM	1
2	Ram Mount	001-2012H	1
3	Spring Load Cradle	001-2012SLC	1
4	Android Case	001-2012A1	1
5	Android Tablet	006-1670AT	1

Installation Instructions

1. Assemble Cradle (001-2012SLC)
2. Attach round base from ram mount to cradle
3. Attach trapezoid end of ram mount to suction mount
4. Clean glass or metal surface that unit will be attaching to.
5. Add a small amount of water to suction cups rubber surface and attach to surface
6. Turn lock on suction cup mount to secure.
7. Place tablet in cradle and hook USB cable that came with system into it.
8. Use a quality communication cable ending with a USB-A connection to connect tablet to (006-7651CM) control module - plug into the USB port showing a tablet.

Optional Harvest Tec Display Kit (030-7670DK)



<u>Ref</u>	<u>Description</u>
1	Suction Cup Mount
2	Ram Mount
3	Harvest Tec Display
4	Display Harness
5	Mounting Plate
NP	700 Series Resistor

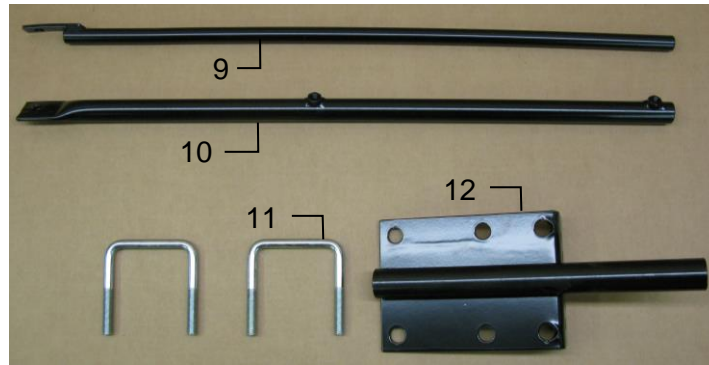
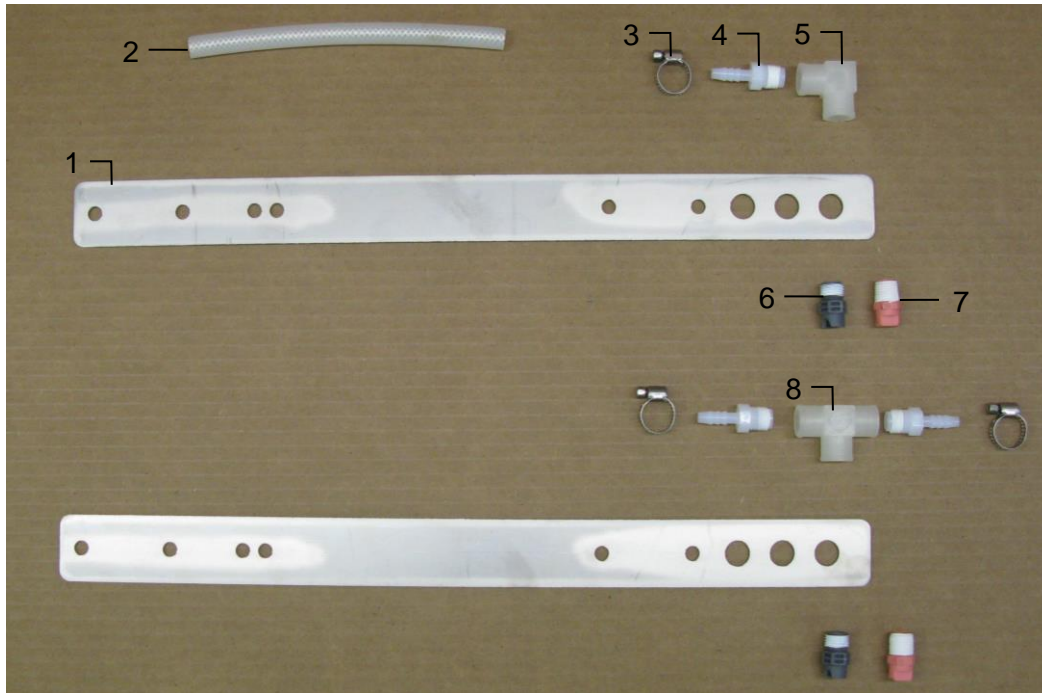
<u>Part #</u>	<u>Qty</u>
001-2012SCM	1
001-2012H	1
006-765GVT	1
006-765GH	1
001-700GH	1
006-700R	1

Installation Instructions

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

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

Model 4409C Installation Kit

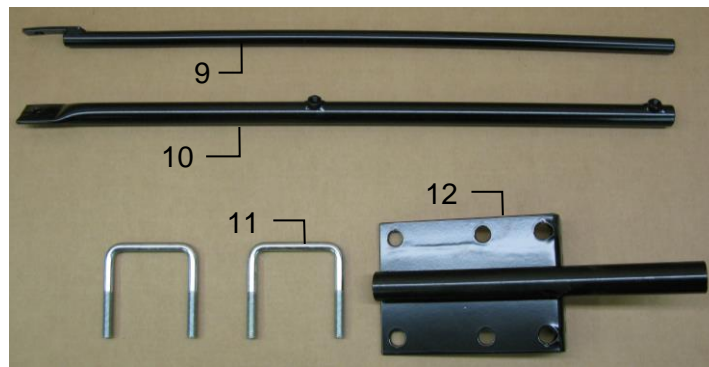
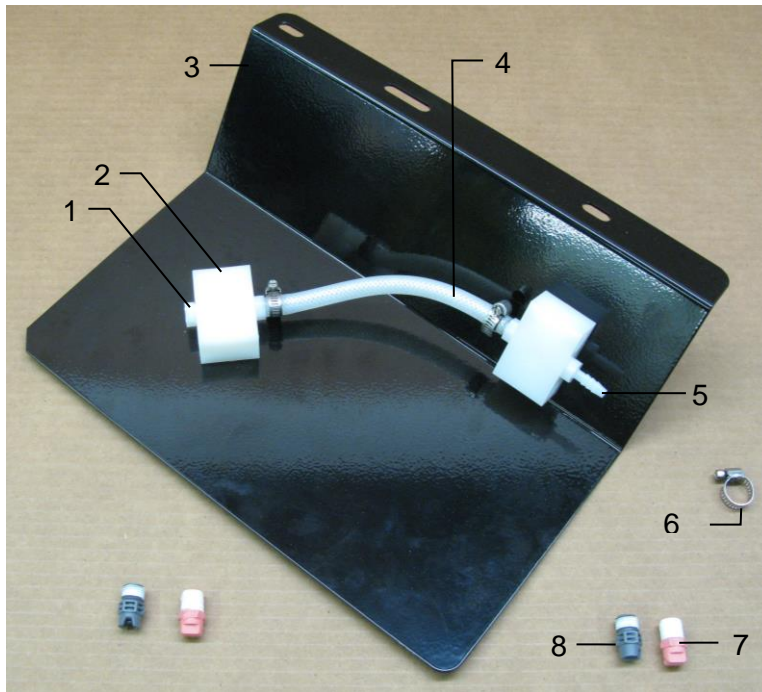


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Nozzle Holder	001-4215	2	8	1/4" Tee Sq	003-TT14SQ	1
2	1/4" Hose	003-9016	3	9	Reach Rod – Outside	001-4404	1
3	Mini Hose Clamp	003-9002	3	10	Reach Rod – Inside	001-4405	1
4	1/4" x 1/4" Straight Fitting	003-A1414	3	11	1/2" x 4" U-Bolt	001-4406A	2
5	1/4" Female Street Elbow	003-SE14F	1	12	Base Bracket	001-4406	1
6	Tip – Grey	004-T6504-PT	2				
7	Tip – Pink	004-T6501-PT	2				

* Tip color subject to change

Shield Only (Ref 1-8)	030-4409C-SO
Tank Mount Kit (Ref 9-12)	TMK-4401
Complete Assembly	030-4409C

Model 4410C Installation Kit



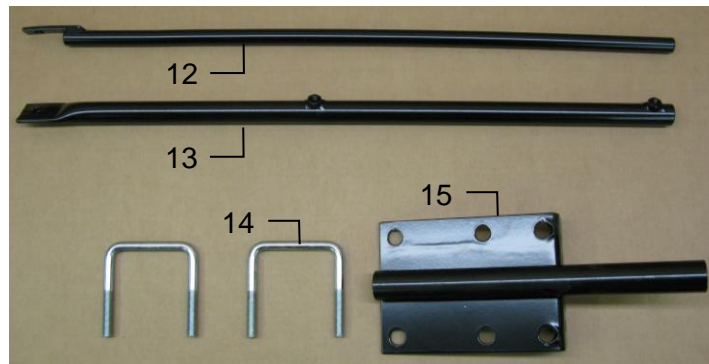
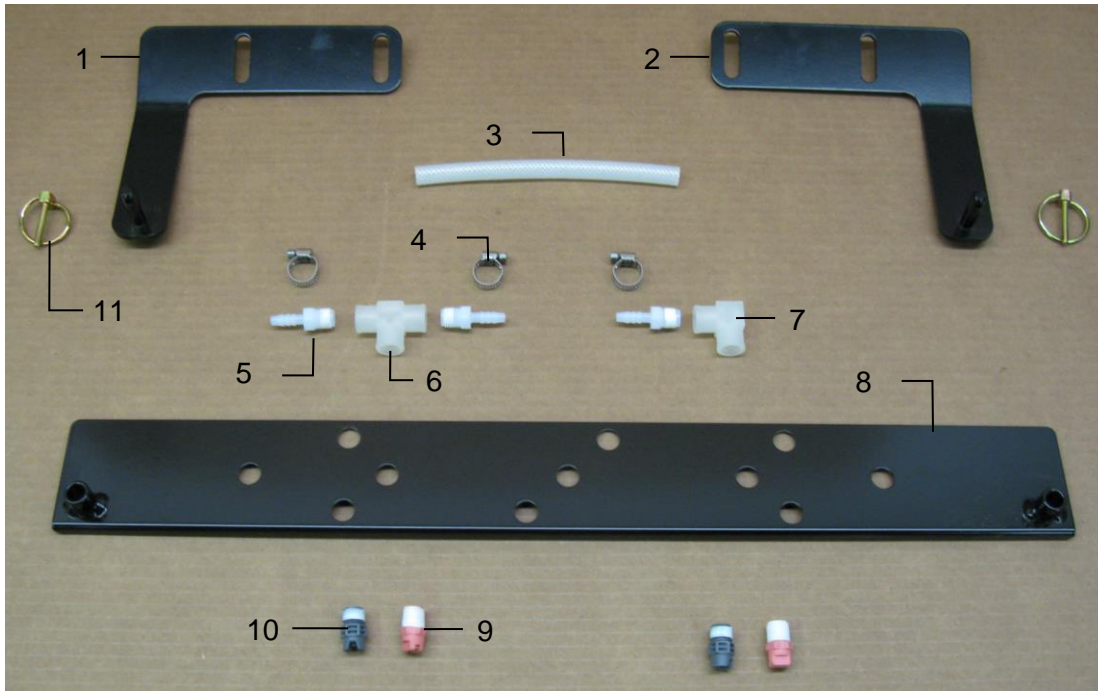
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	1/4" Hex Plug	003-F14	1	7	Tip – Pink	004-T6501-PT	2
2	Shield Manifold Block	001-4435NSB	2	8	Tip – Grey	004-T6504-PT	2
3	Nozzle Holder SS Block	001-4426A	1	9	Reach Rod – Outside	001-4404	1
4	1/4" Hose	002-9016	1	10	Reach Rode – Inside	001-4405	1
5	1/4" x 1/4" Straight Fitting	003-A1414	3	11	Base Bracket	001-4406	1
6	Mini Hose Clamp	003-9002	3	12	1/2" x 4" U-Bolt	001-4406A	2

* Tip color subject to change

Shield Only (Ref 1-8)
Tank Mount Kit (Ref 9-12)
Complete Assembly

030-4410C-SO
TMK-4401
030-4410C

Model 4412C Installation Kit

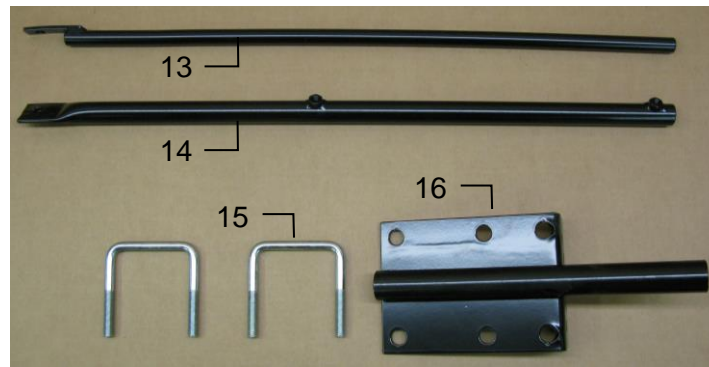
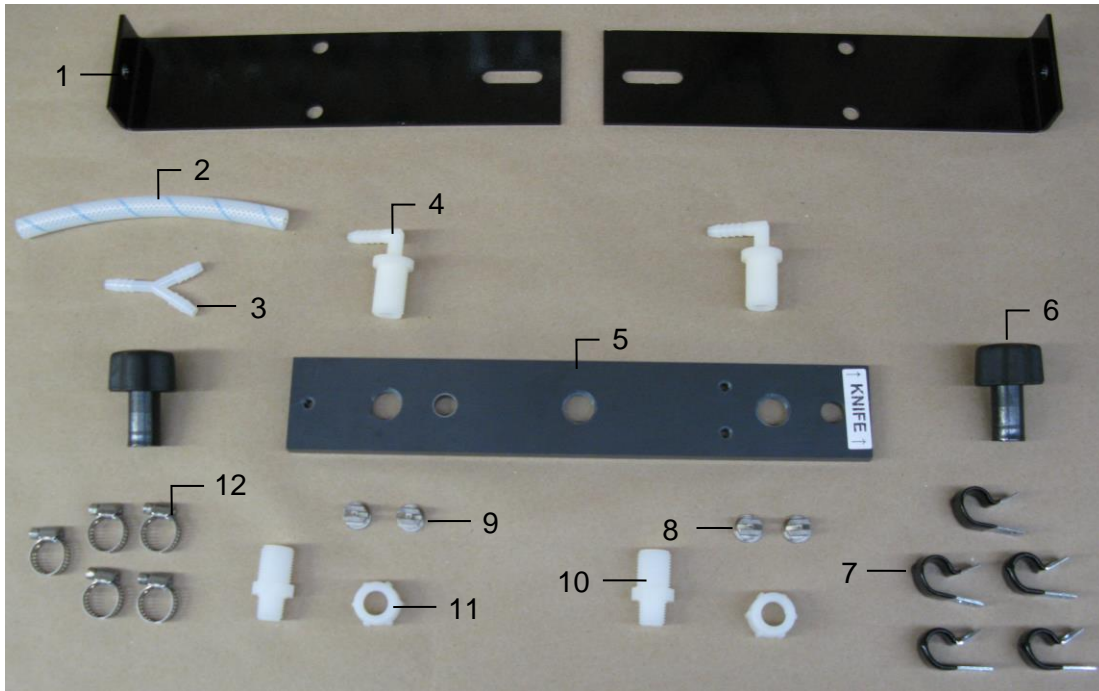


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Left Mounting Bracket	001-4436DL	1	9	Tip – Pink	004-T6501-PT	2
2	Right Mounting Bracket	001-4436DR	1	10	Tip – Grey	004-T6504-PT	2
3	1/4" Hose	002-9016	1	11	3/16" Lynch Pin	008-4576	1
4	Mini Hose Clamp	003-9002	3	12	Reach Rod – Outside	001-4404	1
5	1/4" x 1/4" Straight Fitting	003-A1414	3	13	Reach Rod – Inside	001-4405	1
6	1/4" Sq Tee	003-TT14SQ	1	14	1/2" x 4" U-Bolt	001-4406A	2
7	1/4" Female St Elbow	003-SE14F	1	15	Base Bracket	001-4406	1
8	Tip Holder Spray Shield	001-4810	1				

* Tip color subject to change

Shield Only (Ref 1-11) 030-4412C-SO
 Tank Mount Kit (Ref 12-15) TMK-4401
 Complete Assembly 030-4412C

Model 4415C Installation Kit

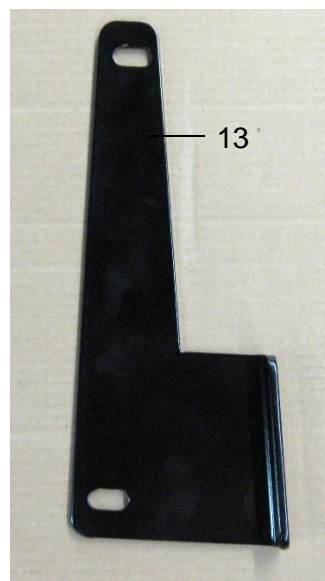
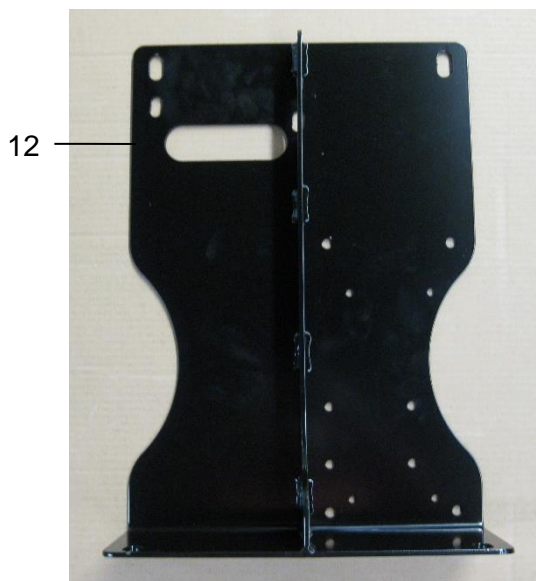
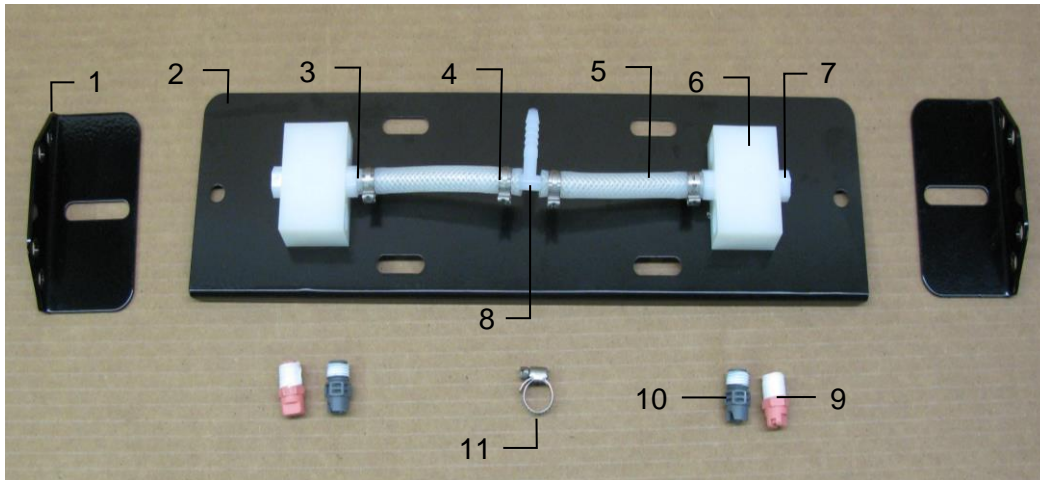


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Hose Support	001-4425B	2	8	Tip – Low Output	004-11001-SS	2
2	1/4" Hose	002-9016	3	9	Tip – High Output	004-11004-SS	2
3	Y Fitting	003-Y1414	1	10	1/4" Drill Guide	003-M3814NB	1
4	1/4" Nozzle Body Elbow	003-EL3814NB	2	11	Nozzle Cap	003-BC12	2
5	Hay Guard Shield	001-4425C	1	12	Mini Hose Clamp	003-9002	5
6	SS Manifold Knob	008-0925	2	13	Reach Rod – Outside	001-4404	1
7	477 Jiffy Clips	008-9014	5	14	Reach Rod – Inside	001-4405	1
				15	1/2" x 4" U-Bolt	001-4406A	2
				16	Base Bracket	001-4406	1

* Tip color subject to change

Shield Only (Ref 1-12)	030-4415C-SO
Tank Mount Kit (Ref 13-15)	TMK-4401
Complete Assembly	030-4415C

Model 4416C Installation Kit

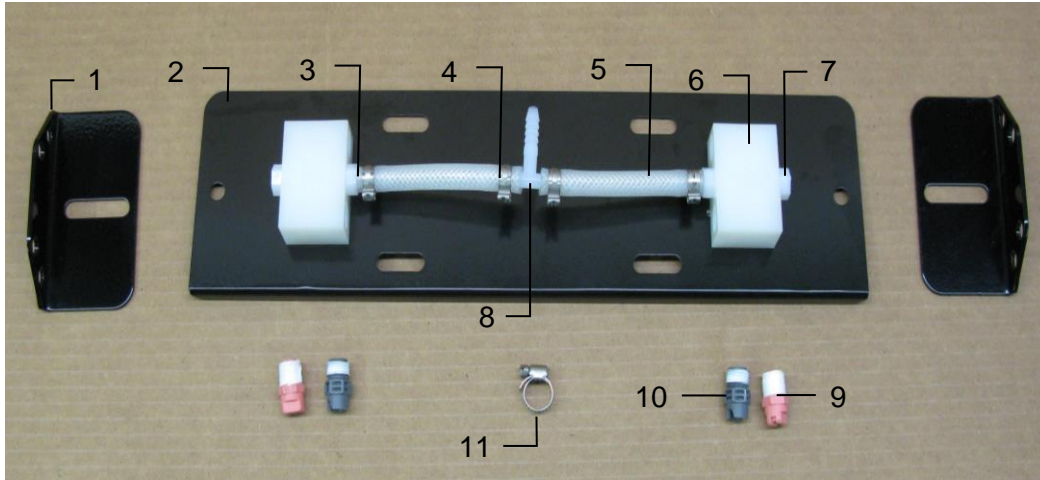


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray Shield Holders	001-4424B	2	8	1/4" Tee	003-T1414	1
2	Spray Shield	001-4424A2	1	9	Tip - Pink	004-T6501-PT	2
3	1/4" Straight Fitting	003-A1414	2	10	Tip - Grey	004-T6504-PT	2
4	1/2" Otiker Clamp	003-9008	4	11	Mini Hose Clamps	003-9002	1
5	1/4" Hose	002-9016	1	12	Saddle Legs	001-4703Q	2
6	Manifold Block	001-4435NSB	2	13	Kicker Bracket	001-4703QC	1
7	Hex Plug	003-F14	2				

* Tip color subject to change

Shield Only (Ref 1-11)	030-4416C-SO
Tank Mount Kit (Ref 12-13)	TMK-4416
Complete Assembly	030-4416C

Model 4417C Installation Kit

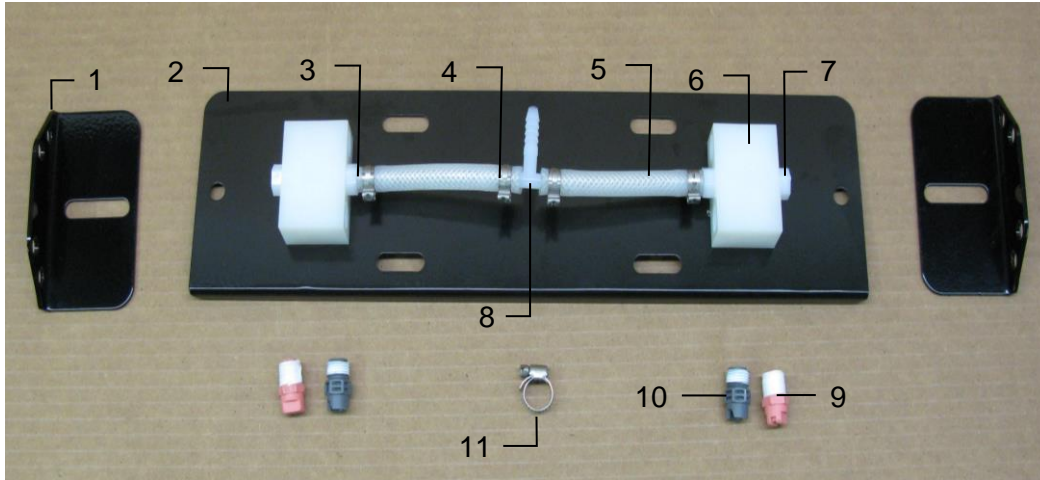


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray Shield Holders	001-4424B	2	8	1/4" Tee	003-T1414	1
2	Spray Shield	001-4424A2	1	9	Tip - Pink	004-T6501-PT	2
3	1/4" Straight Fitting	003-A1414	2	10	Tip - Grey	004-T6504-PT	2
4	1/2" Otiker Clamp	003-9008	4	11	Mini Hose Clamps	003-9002	1
5	1/4" Hose	002-9016	1	12	Support Bracket	001-4703QU	2
6	Manifold Block	001-4435NSB	2	13	3-7/8" U-Bolt	001-4703QUX	2
7	Hex Plug	003-F14	2	14	2-7/8" U-Bolt	001-4703QUB	2

* Tip color subject to change

Shield Only (Ref 1-11) 030-4416C-SO
Tank Mount Kit (Ref 12-14) 030-432SM-TK

Model 4418C Installation Kit

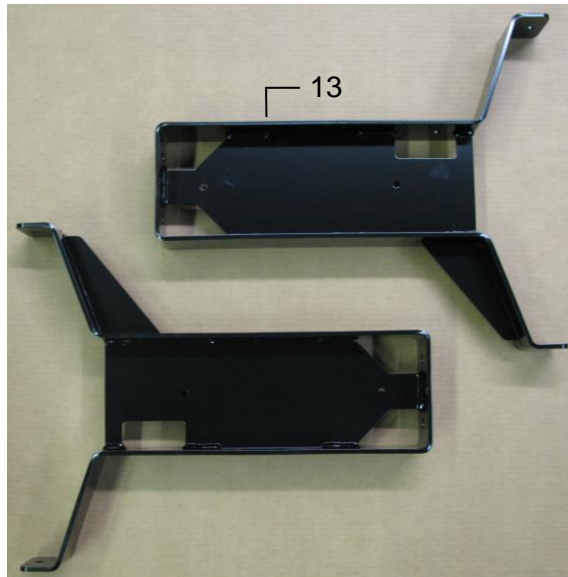
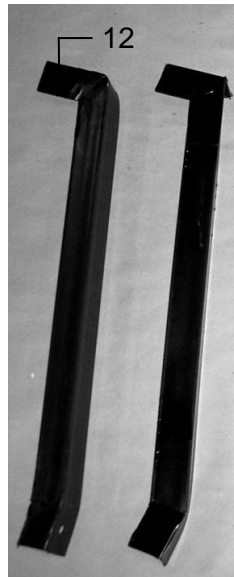
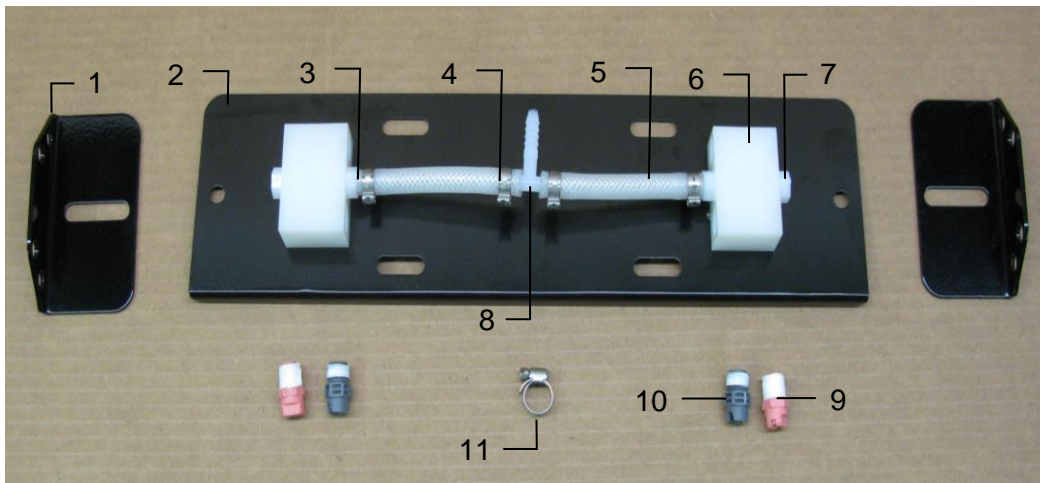


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray Shield Holders	001-4424B	2	8	1/4" Tee	003-T1414	1
2	Spray Shield	001-4424A2	1	9	Tip - Pink	004-T6501-PT	2
3	1/4" Straight Fitting	003-A1414	2	10	Tip - Grey	004-T6504-PT	2
4	1/2" Otiker Clamp	003-9008	4	11	Mini Hose Clamps	003-9002	1
5	1/4" Hose	002-9016	1	12	Support Bracket	001-4703QT	2
6	Manifold Block	001-4435NSB	2	13	2-7/8" U-Bolt	001-4703QUB	1
7	Hex Plug	003-F14	2	14	3-3/4" U-Bolt	001-4703QTB	1

* Tip color subject to change

Shield Only (Ref 1-11) 030-4416C-SO
 Tank Mount kit (Ref 12-14) 030-432SM-TK-18

Model 4485C Installation Kit

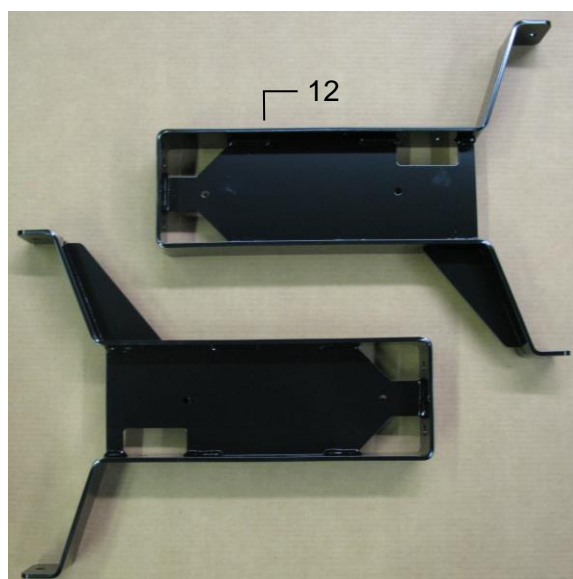
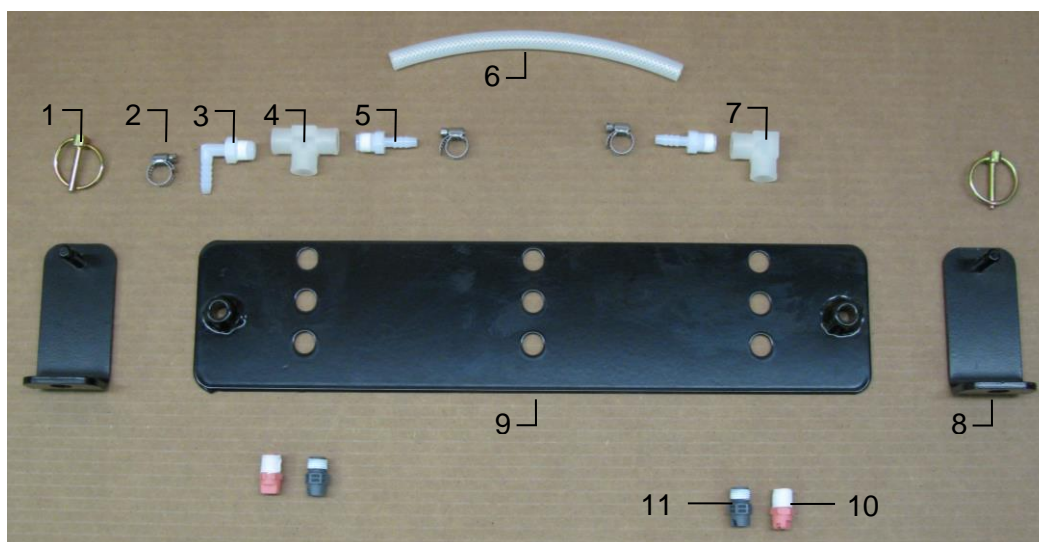


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray Shield Holders	001-4424B	2	8	1/4" Tee	003-T1414	1
2	Spray Shield	001-4424A2	1	9	Tip - Pink	004-T6501-PT	2
3	1/4" Straight Fitting	003-A1414	2	10	Tip - Grey	004-T6504-PT	2
4	1/2" Otiker Clamp	003-9008	4	11	Mini Hose Clamps	003-9002	1
5	1/4" Hose	002-9016	1	12	Support Bracket	001-4424C	2
6	Manifold Block	001-4435NSB	2	13	55 Gal Long Leg	001-4703B	2
7	Hex Plug	003-F14	2				

* Tip color subject to change

Shield Only (Ref 1-11)	030-4416C-SO
Tank Mount Kit (Ref 12-13)	TMK-4485
Complete Assembly	030-4485C

Model 4502C Installation Kit

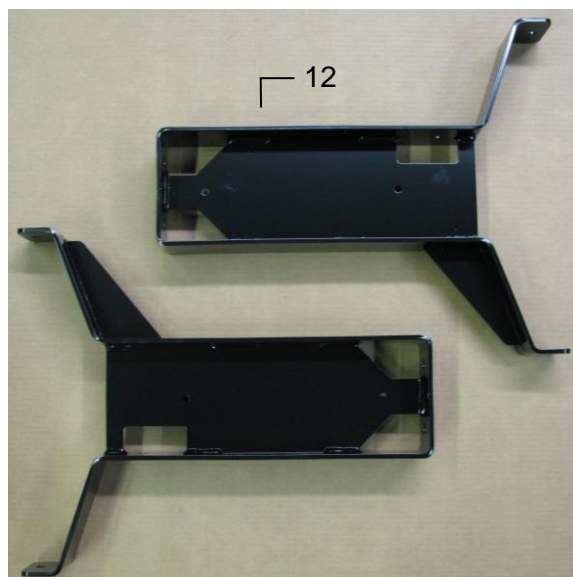
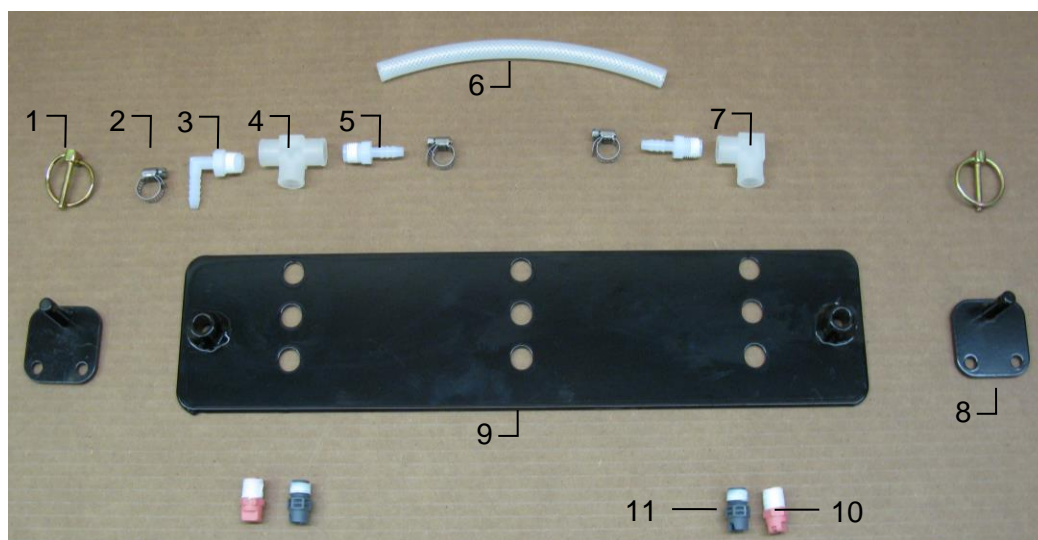


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	3/16" Lynch Pin	008-4576	2	8	Shield Holder	001-4703I	2
2	Mini Hose Clamp	003-9002	3	9	Spray Shield	001-4703G	1
3	1/4" x 1/4" Elbow	003-EL1414	1	10	Tip – Pink	004-T6501-PT	2
4	1/4" Tee Sq	003-TT14SQ	1	11	Tip – Grey	004-T6504-PT	2
5	1/4" x 1/4" Straight fitting	003-A1414	2	12	55 Gal Long Leg	001-4703B	2
6	1/4" Hose	002-9016	1				
7	1/4" Female Street Elbow	003-SE14F	1				

* Tip color subject to change

Shield Only (Ref 1-11)	030-4502C-SO
Tank Mount Kit (Ref 12)	TMK-4703B
Complete Assembly	030-4502C

Model 4506C Installation Kit



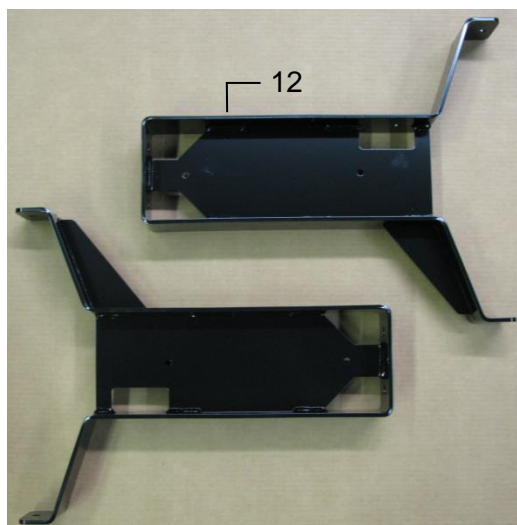
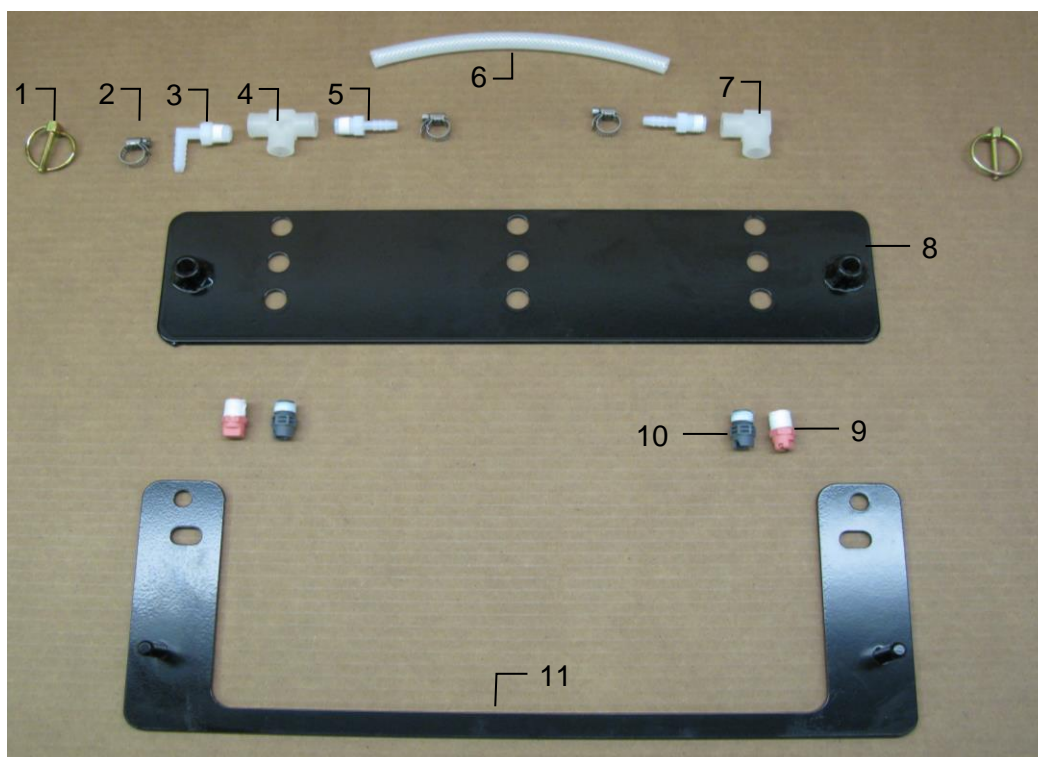
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	3/16" Lynch Pin	008-4576	2	8	Shield Holder	001-4703H	2
2	Mini Hose Clamp	003-9002	3	9	Spray Shield	001-4703G	1
3	1/4" x 1/4" Elbow	003-EL1414	1	10	Tip – Pink	004-T6501-PT	2
4	1/4" Tee Sq	003-TT14SQ	1	11	Tip – Grey	004-T6504-PT	2
5	1/4" x 1/4" Straight fitting	003-A1414	2	12	55 Gal Long Leg	001-4703B	2
6	1/4" Hose	002-9016	1				
7	1/4" Female Street Elbow	003-SE14F	1				

* Tip color subject to change

Shield Only (Ref 1-11)
Tank Mount Kit (Ref 12-15)
Complete Assembly

030-4506C-SO
TMK-4703B
030-4506C

Model 4507C Installation Kit



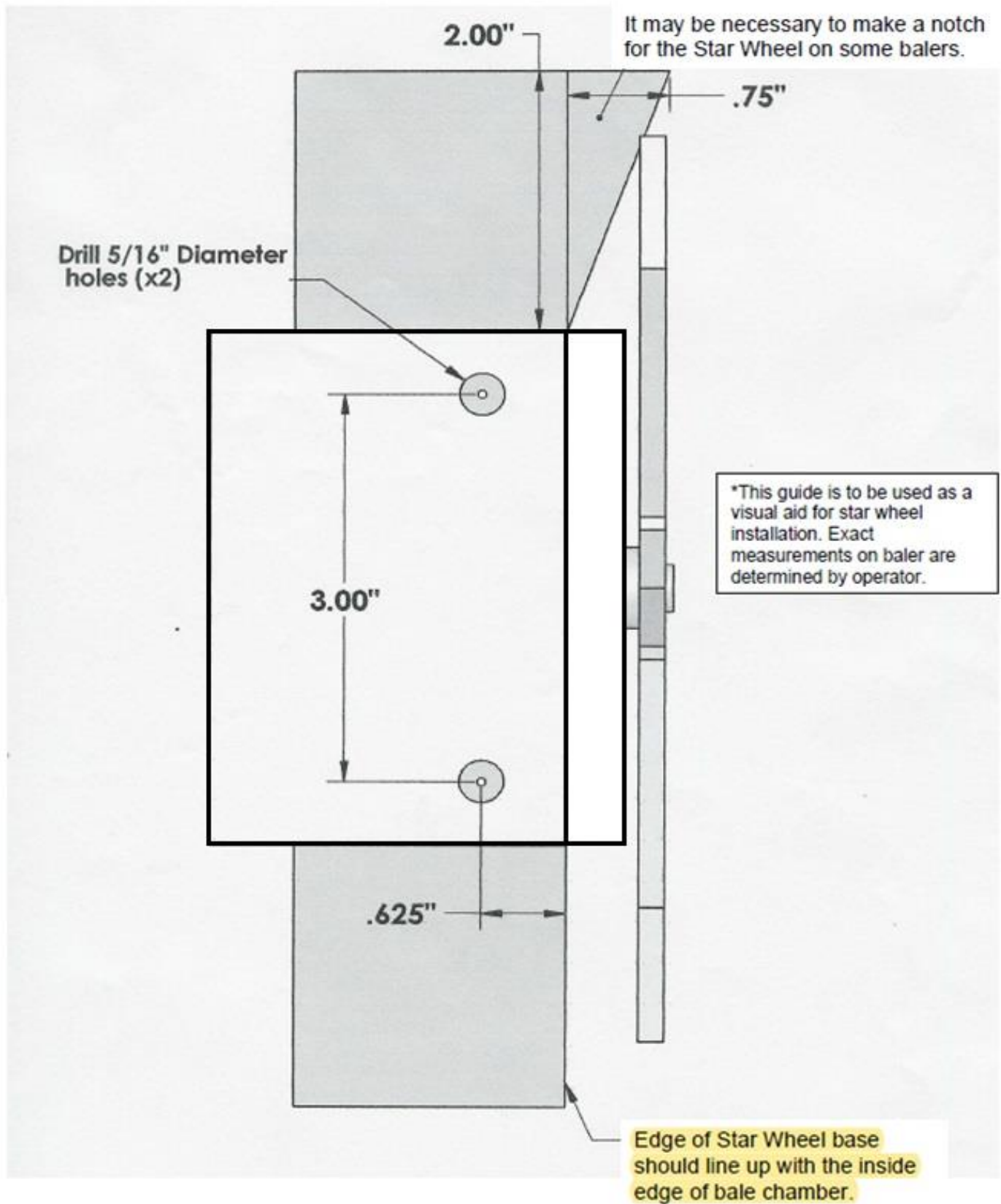
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Lynch Pin	008-4576	2	8	Spray Shield	001-4703G	1
2	Mini Hose Clamp	003-9002	3	9	Tip – Pink	004-T6501-PT	2
3	1/4" x 1/4" Elbow	003-EL1414	1	10	Tip – Grey	004-T6504-PT	2
4	1/4" Tee Sq	003-TT14SQ	1	11	Shield Holder	001-4703J	2
5	1/4" x 1/4" Straight Fitting	003-A1414	2	12	55 Gal Long Leg	001-4703B	2
6	1/4" Hose	002-9016	1				
7	1/4" Female Street Elbow	003-SE14F	1				

* Tip color subject to change

Shield Only (Ref 1-11)
Tank Mount Kit (Ref 12)
Complete Assembly

030-4507C-SO
TMK-4703B
030-4507C

Star Wheel Installation Guide



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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