

Installation Manual

***Model 434, 440, 441,
442M & 448***

***25 & 55 gallon Electronic Preservative Applicator
for Small Square Balers***



HarvestTec[®]

EST. 1976

Harvest Tec 434,440,441,442M,448 Installation Table of Contents

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Introduction

Congratulations and thank you for purchasing a Harvest Tec Electronic Preservative Applicator system. Read this manual carefully to ensure correct steps are followed 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 pressure gauge and damage to system components.

Electronic Preservative Applicator systems are compatible with Optional Crop Eye Forage Indicator kit 474A which are designed to pause and restart the spray pump based on forage intake at the baler pickup. Use of crop eyes will assist in the conservation of chemical when tying bales and when at the end of wind rows.

Harvest Tec applicators can be installed on many baler models when using the proper tank model number and installation kit. Before installing on your baler, make sure you have the proper model & installation kit. Please contact your local authorized dealer or Harvest Tec directly for specifications if you are unsure about the correct installation kit for your baler model.

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

Model Reference – for Small Square Balers (Non-Double Baler/High-Capacity Models)

Electronic Applicator Systems

Baler Make	Baler Model	Model Number	Installation Kit	Tank Size
AGCO	7105, 7110, 7115, 7120, 1835, 1837, 1837, 1841	434	4416	55 Gallon
Case IH	8500 Series	434	4416	55 Gallon
	SBX 520, 521	441	4409	25 Gallon
	SBX 530, 540, 550, SB531, SB541, SB551	441	4415	25 Gallon
	SBX 530, 540, 550, SB531, SB541, SB551	440	4415	55 Gallon
Challenger	SB 34, 36, 44	434	4416	55 Gallon
Freeman	270, 370	448	4506	55 Gallon
Hesston	4550, 4570, 4590, 4600, 4655	434	4416	55 Gallon
	4690N, 4690S	448	4502	55 Gallon
John Deere	328, 336, 338, 346, 347, 348	441	4410	25 Gallon
Massey Ferguson	1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1842S (Top Mount)	434	4416	55 Gallon
	1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1842S (Side Mount)	442M	4416-SO	25 Gallon
	1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842 (Side Mount)	434	4417	55 Gallon
	1842S (Side Mount)	434	4418	55 Gallon
	1843N, 1843S	448	4502	55 Gallon
	1844N, 1844S	448	4485	55 Gallon
New Holland	200, 300 Series, 565 & BC5050	441	4409	25 Gallon
	570, 575, 580, BC5060, BC5070, BC5080	441	4415	25 Gallon
	570, 575, 580, BC5060, BC5070, BC5080	440	4415	55 Gallon
	585, BB900	448	4507	55 Gallon
New Idea	7205, 7210, 7215	434	4416	55 Gallon
Welger	AP630, AP730, AP830	441	4412	25 Gallon

Tools Needed

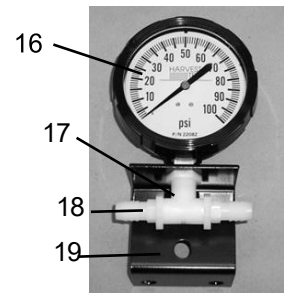
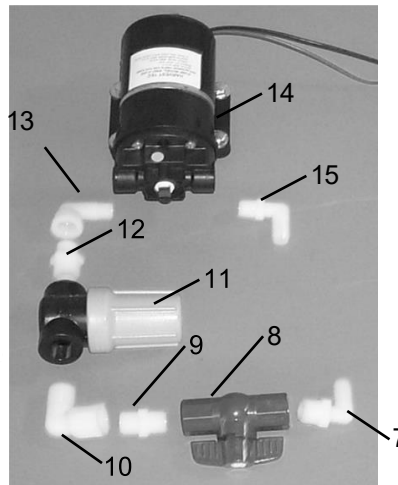
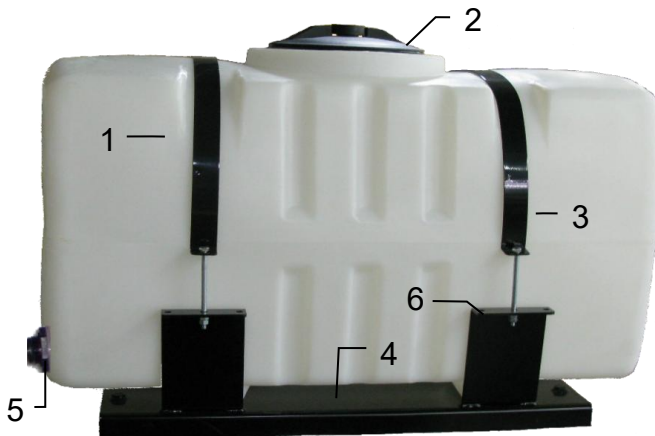
SAE wrench set
 Standard screw driver
 Crescent wrench
 1-1/2" hole saw (4415 install only)

Side cutter
 Hose cutter
 Hammer
 Measuring tape

SAE socket set
 Drill bit set
 Center punch
 Metric socket set

Model 434 Base Kit

Install Kit 4416 - Top Mounted Tank Saddle Kit (030-0432-TK)



Ref#	Description	Part #	Qty
1	Tank*	005-9203SQ	1
2	Tank Lid	005-9022H	1
NP	Lid Gasket	005-9022G	
NP	Lid Breather	005-9022B5	
3	Tank Straps	001-4402C	2
4	Tank Saddle	001-4703X	1
5	Tank Fitting	005-9100	2
6	Strap Base	001-4703CC	4
7	Elbow	003-EL1212	1
8	Ball Valve	002-2212	1
9	Nipple	003-M1212	1
10	Elbow	003-SE12	2

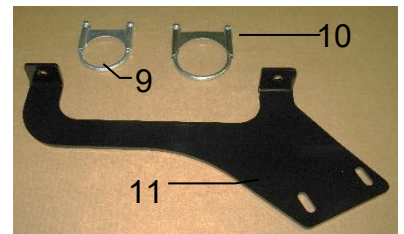
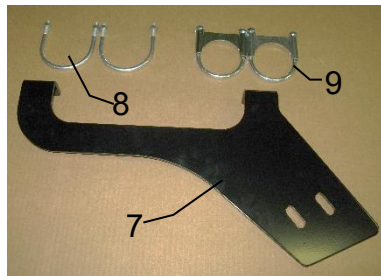
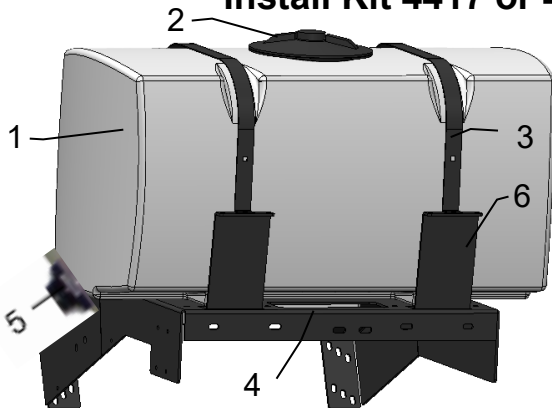
*Replacement tank for both mounting options

Ref#	Description	Part #	Qty
11	Filter Bowl Assembly	002-4315-80	1
NP	Filter Bowl Only	002-	
NP	Filter Bowl Gasket	002-	
NP	Replace Screen- 80	002-	
12	Nipple	003-M1238	1
13	Elbow	003-SE38	1
14	Pump	007-4120S	1
15	Elbow	003-EL3812	1
16	Gauge	002-2208Z	1
17	Tee -1/4" MPT	004-TT14	1
18	Straight Fitting	003-A1412	2
19	Gauge Bracket	001-4717	1

Tank Saddle Kit (1-6)

030-0432-TK

Install Kit 4417 or 4418 - Side Mounted Tank Option



Ref#	Description	Part #	Qty
1	Tank	005-9203SQ	1
2	Tank Lid	005-9022H	1
3	Tank Straps	001-4202C	2
4	Tank Saddle	001-4703QS	1
5	Tank Fitting	005-9100	1
	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	2
11	Support Bracket	001-4703QT	2

4417C Tank Saddle Kit (1-9)

030-0432SM-TK

4418C Tank Saddle Kit

(1-6, 9-11) Inc. Qty 1 of part #9

030-0432SM-TK-18

Tank Mounting

Model 434 - Top Mounted Tank Option

Install Kit 4416 - Tank Saddle Kit (030-0432-TK)

Uses Tank Mounting Kit (TMK-4416)

Installation

Tank legs will be mounted to the back side of baler behind knotters and before the bale tensioner (Figure 1).

Mark the two holes on each side of bale chamber that need to be drilled (Figure 2). Line up saddle legs on each side to verify holes before drilling (Figure 3). Drill all four holes to 1/2" (13mm) in size. Bolt legs to baler using supplied 1/2" x 1-3/4" Allen button head bolts, flat washers, lock washers, and nuts.

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

For Baler's with Bale Thrower – Additional Bracket Required

When baler is equipped with a bale thrower, additional 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. Bracket (001-4703QC) is a spacer that will go between the tank leg and side of the baler, to fill the space that the bale thrower's front hydraulic mount adds.



Figure 1



Figure 2

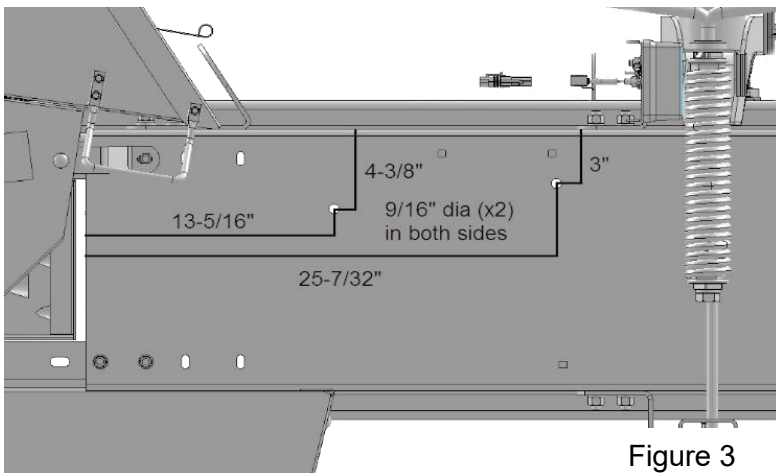


Figure 3



Figure 4

Tank and Tank Saddle - Installation

Mount tank saddle (001-4703X) onto tank legs as shown (Figure 5). Tank side fitting should be to the left side of the baler. Mounting bolts are pre-installed on tank saddle, secure with supplied 1/2" locks, washers, and nuts.

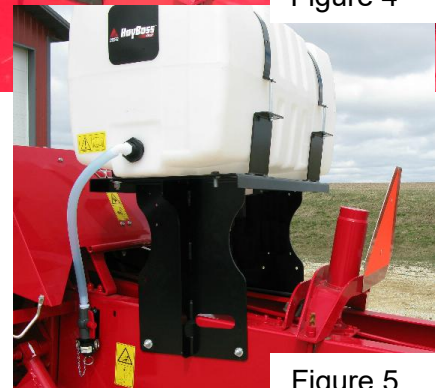


Figure 5

Tank Mounting

Model 434 - Side Mounted Tank Saddle Kit Option

Install Kit 4417 (030-0432SM-TK)

Install Kit 4418 (030-0432SM-TK-18)

Installation

1. Lay tank and frame assembly on ground on the right side of bale chute.
2. Locate "U" bolts that fit the baler's hitch 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 hitch is not parallel to the ground so "U" bolts in tank support frame will need to be offset.
3. Rotate tank assembly up and check to see if saddle is parallel to ground. If not, adjust which holes the "U" bolts are installed into as needed to allow tank to be parallel.
4. You will need to drill 9/16" holes- See measurement reference chart below. Install rear mounts (001-4703QU or 001-4703QT for 1842S balers) just behind of "U" bracket on bottom of the bale chamber. Secure to baler with two 1/2" x 1 3/4" BHSC bolts, locks and nuts.
5. Slide tank and saddle frame loosely onto pipe to match up with front and rear mounts (001-4703QU or 001-4703QT). Install using two 1/2" x 1 1/4" bolts, flat washers, lock washers and nuts.
6. Recheck tank frame again that it is parallel to ground. Tighten down all bolts fully.
7. Attach pump plate assembly. Automatic systems mount pump plate to outside edge. Electronic and Manual systems have the pump mounted on rear of tank the saddle.

Rear Mount Measurement Reference Chart

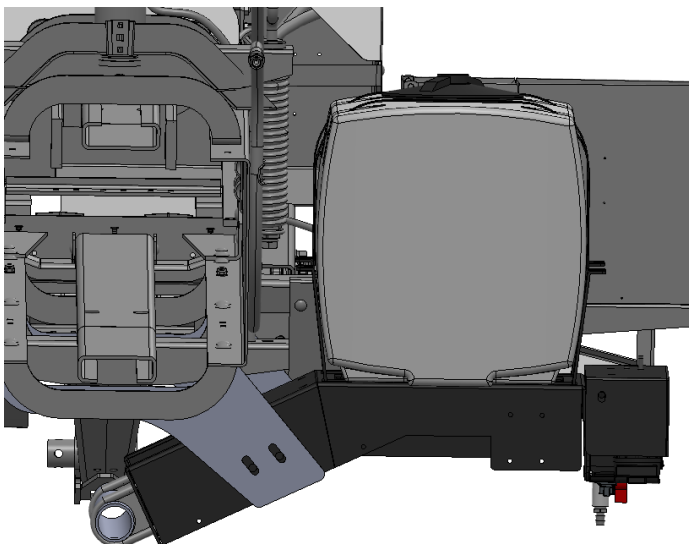
*as Measured from the END of the Underside of Bale Chamber

4417C kits (uses the 001-4703QU brackets)

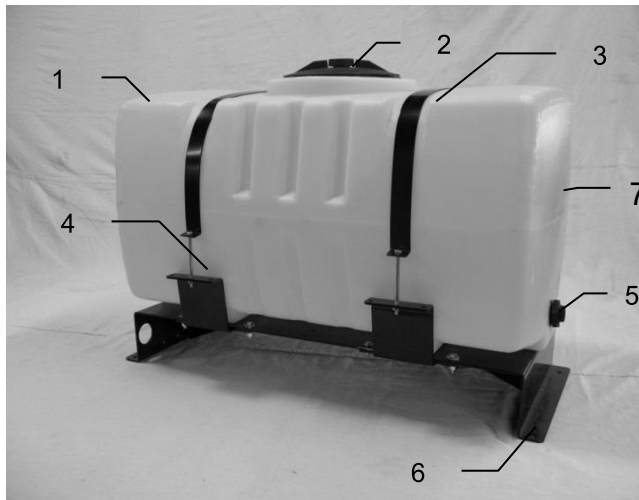
Side to Side: 15.00" centered across bale chamber
Front Holes: 40.94" from end of chamber
Rear Holes: 13.00" from end of chamber

4418C kits (uses the 001-4703QT brackets)

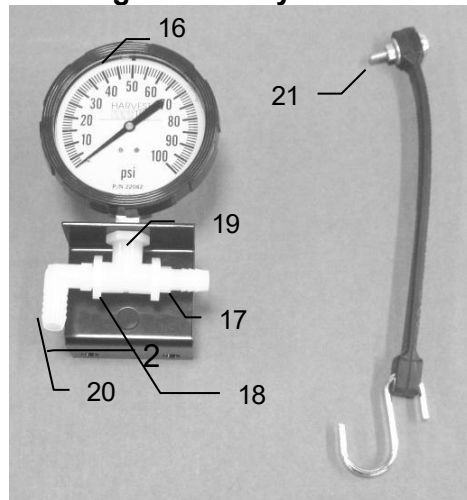
Side to Side: 15.00" centered across bale chamber
Front Holes: 36.06" from end of chamber
Rear Holes: 8.13" from end of chamber



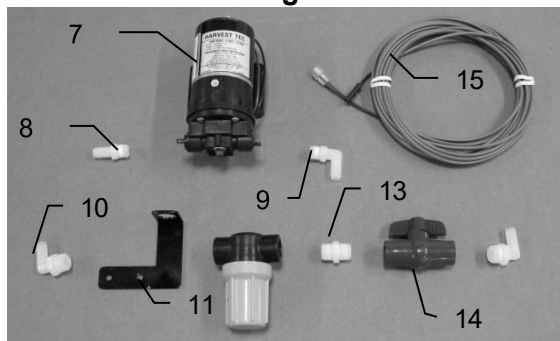
Model 440 Base Kit Tank Saddle Kit (030-0440-TK)



Gauge Assembly for 440



Parts Bag for 440



Ref	Description	Part#	Qty	Ref	Description	Part#	Qty
1	Tank*	005-9203SQ	1	13	Nipple	003-M1212	1
2	Tank Lid	005-9022H	1	14	Ball Valve	002-2212	1
NP	Tank Lid Gasket	005-9022G		15	Pump Lead – 26'	006-4574	1
NP	Tank Lid Breather	005-9022B5		16	Gauge	002-2208Z	1
3	Tank Straps	001-4402C	2	17	Straight Fitting	003-A1412	2
4	Short Strap Base	001-4703CC	2	18	Tee	003-TT14	1
NP	Long Strap Base	001-4703CD	2	19	Gauge Bracket	001-4717	1
5	Tank Fitting	005-9100	2	20	Elbow	003-EL1412	1
6	Tank Saddle	001-4703C	1	21	Door Latch	001-4703CL	2
7	Pump	007-4120S	1	NP	#6 Hose Clamp	003-9003	7
8	Straight Fitting	003-A3812	1	NP	Screen-80 Mesh	002-4315B	1
9	Elbow	003-EL3812	1	NP	Filter Bowl Only	002-4315F	1
10	Elbow	003-EL1212	2	NP	Filter Bowl Gasket	002-4315D	1
11	Filter Bowl Assembly	002-4315-80	1				
12	Filter holder	001-4703CH	1				

*Tank Includes Cap, Bottom & Side Tank Fitting

Tank Saddle Kit
(Parts 1-7, 21)

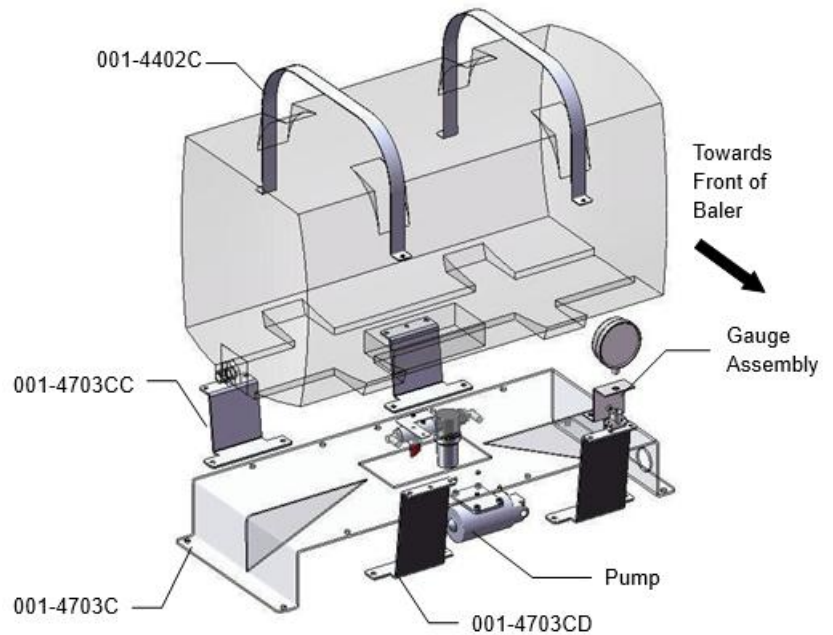
030-0440-TK

Tank Mounting

Model 440 – Tank Saddle Kit (030-0440-TK)

Installation 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.

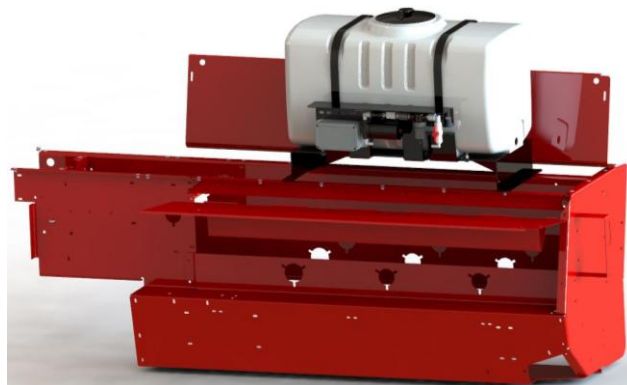
Install the tank fitting into the bottom of the tank (003-EL3412) and mount the tank on top of the saddle and between the strap bases. Locate the two straps (001-4402). Position the straps over the top of the tank and secure with four 5/16" x 4-1/2" bolts and eight nuts. All of the strap bolts need to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



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. For Electronic systems the gauge will be towards the front of the baler. Place the tank on top of the baler and open the front access door (shown below).

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. 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. The back access door will be held open with one door strap latch. The second door strap latch included with the kit can be used to hold twine box door if needed. Attach door strap latches to an appropriate open hole on the tank saddle or strap base with supplied bolts and hardware.

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

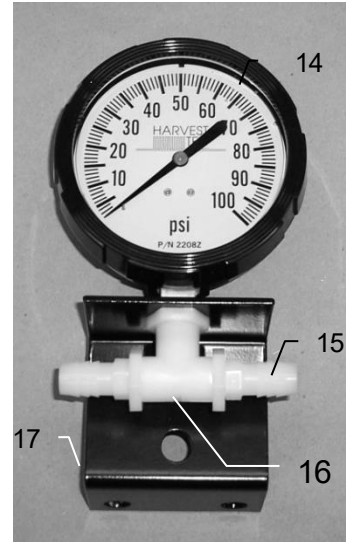
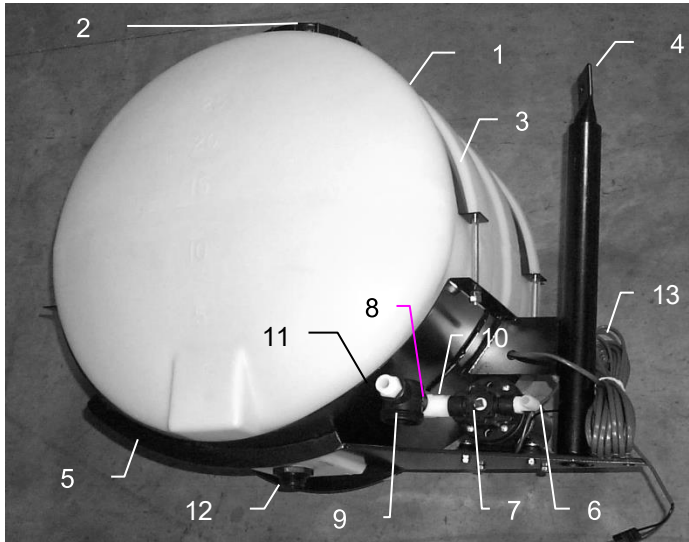


Model 441 Base Kit

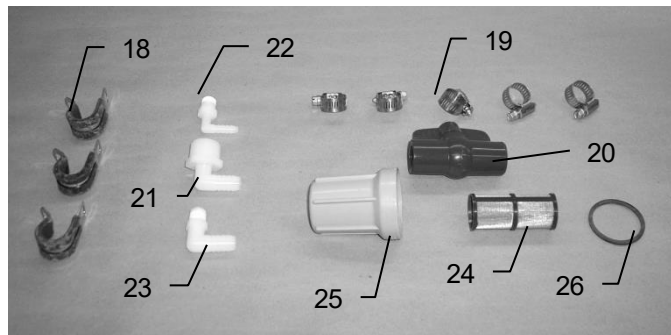
25 gal. Tank Saddle Kit (030-0441-TK)

Tank Saddle Kit (030-0441-TK) is a versatile tank kit that may be mounted to a variety of different baler makes and models when properly paired with the install kit designed for the baler. Reference the applicator Install Kit number in the following pages for the mounting instructions to attach the tank kit to your baler model.

Gauge Assembly for 441



Parts Bag for 441



<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-25 gallon	005-9022	1	14	Gauge	002-2208Z	1
2	Tank Lid Complete	005-9022C	1	15	Straight Fitting	003-A1412	2
NP	Tank Lid Gasket	005-9022CG		16	Tee	003-TT14	1
NP	Tank Lid Breather	005-9022B5		17	Gauge Bracket	001-4717	1
3	Tank Strap	001-4402	2	18	Jiffy Clips	008-9010	3
4	Stub Pipe	001-4403	1	19	#6 Hose Clamp	003-9003	5
5	Tank Saddle	001-4401	1	20	Ball Valve-1/2"	002-2212	1
6	Elbow	003-EL3812	1	21	Elbow	003-EL3412	1
7	Pump	007-4120S	1	22	Elbow	003-EL1412	1
8	Elbow	003-SE12	1	23	Elbow	003-EL1212	1
9	Filter Bowl Assembly	002-4315-80	1	NP	Filter Bowl Asm.	002-4315-80	1
10	Nipple	003-M1238	1	24	Screen-80 Mesh	002-4315B	
11	Nipple	003-M1212	1	25	Filter Bowl Only	002-4315F	
12	Tank Fitting	005-9100	1	26	Filter Bowl Gasket	002-4315D	
13	Pump Lead -26'	006-4574	1				

Tank Saddle Kit
(parts 1-4, 12)

030-0441-TK

Tank Mounting

Model 441 – Tank Saddle Kit (030-0441-TK)

Install Kits 4409, 4410 and 4415

Uses Tank Mount Kit (TMK-4401)

Installation

The tank saddle assembly (030-0441-TK) mounts to the baler by sliding over Base Bracket (001-4406) from tank mount kit (TMK-4401). The base bracket is mounted to the baler's diagonal frame behind the twine box using U-bolts (001-4406A), similar to shown below. 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.



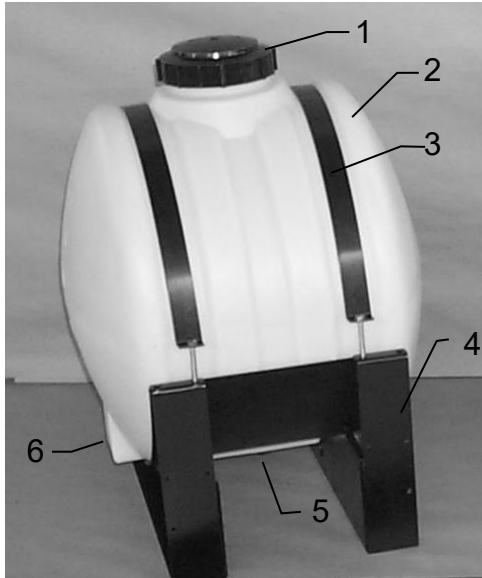
Telescoping Reach Rod- *included in (TMK-4401)* Bolt one end of the telescoping reach rod to the top stub pipe on the tank saddle and the other end to a secure location on the baler. Reach rods tabs may have to be bent to align properly. Once final length is determined, remove the set screw bolt and 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.



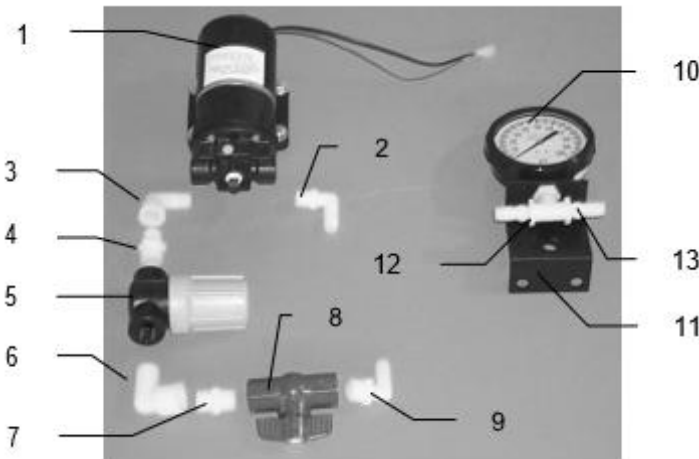
Example of installed Tank Saddle Kit using Tank Mount Kit

Model 442M Base Kit

25 gal. Tank Saddle Kit (030-044225-TK)



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tank Cap	005-9022C	1
	Tank Cap Gasket	005-9022CG	1
	Tank Cap Breather	005-9022B5	1
2	Replacement Tank*	005-9022	1
	*Includes Bottom Fitting Only		
3	Tank Strap	001-4402	2
4	Tank Saddle	001-4442	1
5	Tank Fitting	005-9100	1
6	Plug for Side Fitting	003-F34	1
NP	Side Mount Brackets	001-4442SM	2
1-5 Tank Saddle Kit		030-044225-TK	



Electronic Pump and Gauge Assemblies

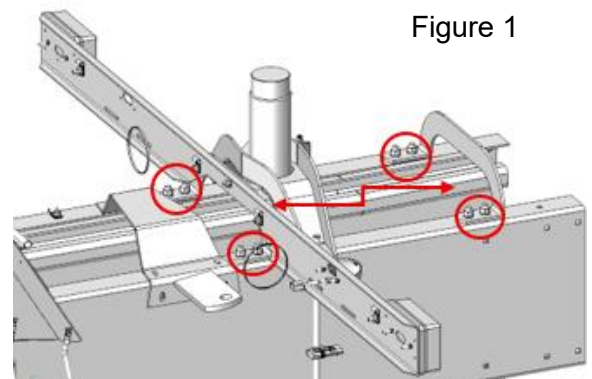
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Pump	007-4120S	1
2	Elbow Fitting	003-EL3812	1
3	Street Elbow	003-SE38	1
4	Nipple Fitting	003-M1238	1
5	Filter Bowl Assembly	002-4315-80	1
	Filter Bowl Only	002-4315F	
	Filter Bowl Gasket	002-4315D	
	Screen – 80 Mesh	002-4315B	
6	Street Elbow	003-SE12	1
7	Nipple Fitting	003-M1212	1
8	Ball Valve	002-2212	1
9	Elbow Fitting	003-EL1212	1
10	Gauge	002-2208Z	1
11	Gauge Bracket	001-4717	1
12	Tee	003-TT14	1
13	Straight Fitting	003-A1412	2

Tank Mounting

Model 442M – Tank Saddle Kit (030-044225-TK) **Using Side Mount Brackets (001-4442SM)**

Light Rack Relocation

If baler is equipped with the rear light rack, it will need to be relocated to the rear mounting location on the bale chamber. Unbolt the bolts securing the entire light mounting bracket to the bale chamber and reinstall at the rearward set of factory holes on the bale chamber (Figure 1).



Model 442M – Tank Saddle Kit (030-044225-TK) continued

Side Mount Brackets (001-4442SM)

Side Mount Brackets (001-4442SM) will be mounted under the bale chamber with approx. 20" protruding out the RH side of the bale chamber to allow for tank and pump plate mounting (Figure 2).

Figure 2

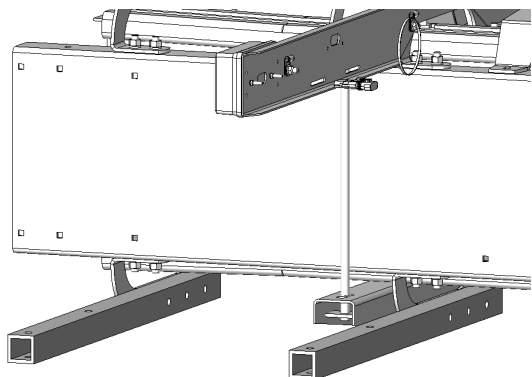
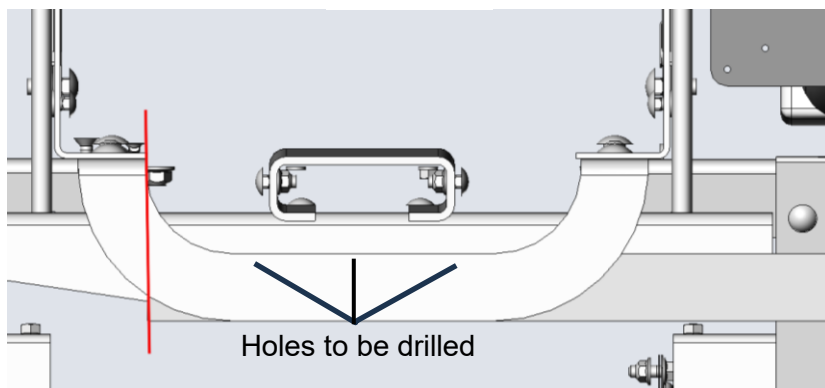


Figure 3



Using side mount brackets as the template, align the three holes to the front side of the U-shaped chamber support brackets, making sure the end of the bracket tubing is flush with the inside edge of the chamber support bracket (Figure 3). Clamp brackets in place, then mark and drill the three 1/2" holes through chamber support. Attach mount brackets to chamber supports using six 3-1/2" x 1/2" bolts, washers and nuts.

Tank Saddle Mounting (030-044225-TK)

Mount the tank saddle (001-4442) to the side mount brackets (001-442SM) aligning the predrilled slots/holes (Figure 4) using four 3-1/2" x 1/2" bolts, washers, locks and nuts. Tank saddle may already have the tank mounted onto it. **Note for 1842S balers:** *New Holes will have to be drilled to attach tank saddle (001-4442) due to the narrower placement of the side mount brackets (001-4442) on this baler.*

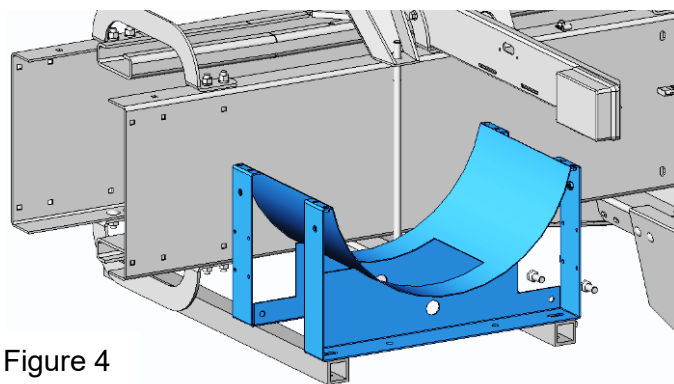


Figure 4

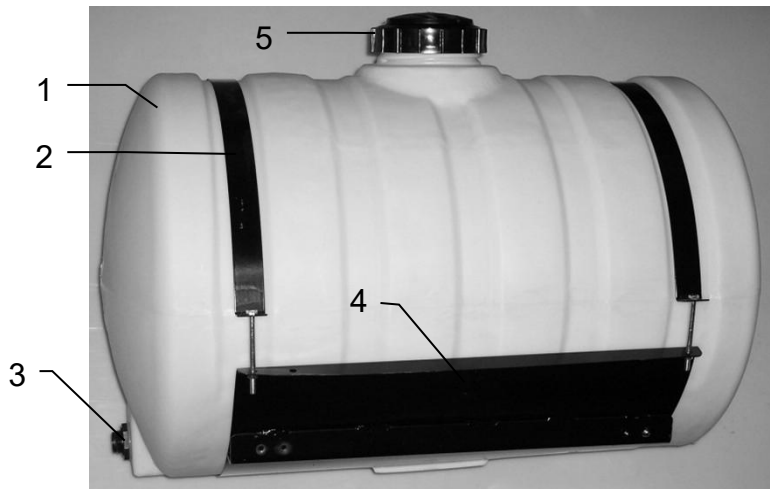
Loosen the tank straps and rotate the tank so the lid is as close to parallel as possible with the ground when baler is in field ready position (Figure 5).



Figure 5

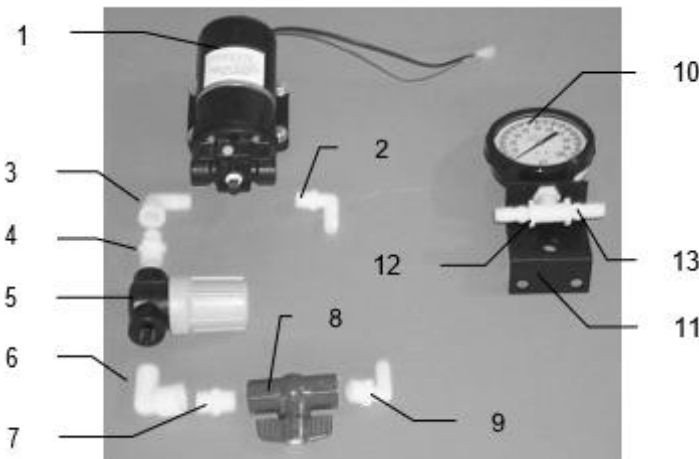
Model 448 Base Kit

55 gal. Tank Saddle Kit (030-0448-TK)



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

Tank Saddle Kit (1-6) 030-0448-TK



Electronic Pump and Gauge Assemblies

<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Pump	007-4120S	1
2	Elbow Fitting	003-EL3812	1
3	Street Elbow	003-SE38	1
4	Nipple Fitting	003-M1238	1
5	Filter Bowl Assembly	002-4315-80	1
	Filter Bowl Only	002-4315F	
	Filter Bowl Gasket	002-4315D	
	Screen – 80 Mesh	002-4315B	
6	Street Elbow	003-SE12	1
7	Nipple Fitting	003-M1212	1
8	Ball Valve	002-2212	1
9	Elbow Fitting	003-EL1212	1
10	Gauge	002-2208Z	1
11	Gauge Bracket	001-4717	1
12	Tee	003-TT14	1
13	Straight Fitting	003-A1412	2

Tank Saddle Kit (030-0448-TK)

Installing Tank to Tank Saddle

Locate parts bag 7. Place Tank (005-9203) onto Tank Saddle (001-4703). Make sure side tank fitting is placed to the baler's left side when looking at it from the front. Locate and attach Tank Straps (001-4402) to saddle using 5/16" x 4" bolts. Make sure to double nut all four bolts on tank straps.

Tank Saddle Kit (030-0448-TK) is a versatile tank kit that may be mounted to a variety of different baler makes and models when properly paired with the install kit designed for the baler. Reference the applicator Install Kit number in the following pages for the mounting instructions to attach the tank kit to your baler model.

Tank Mounting

Model 448 – Tank Saddle Kit (030-0448-TK)

Uses Tank Mount Kit (TMK-4485)

Installation Locate parts bag 7. Attach Tank Legs (001-4703B) to Tank Saddle (001-4703) using 3/8" x 1" bolts, flat and lock washers. Tank legs will attach on top of the bale chamber in front of the hydraulic compression area (Figures 1 & 2). Four 1/2" (13 mm) holes must be drilled on top of the chamber to mount the tank and frame. Clamp legs on top of the bale chamber to mark and drill holes. Use 1/2" x 1-3/4" allen head carriage bolts and flat washers, inserted through the bale chamber so that the carriage head and washer are inside the chamber. Secure tank legs using the allen head carriage bolts, 1/2" nuts, flat and lock washers. Support Brackets (001-4424C) mount to bale chamber using similar method and attach to tank saddle, for two-tie models only (Figure 3).

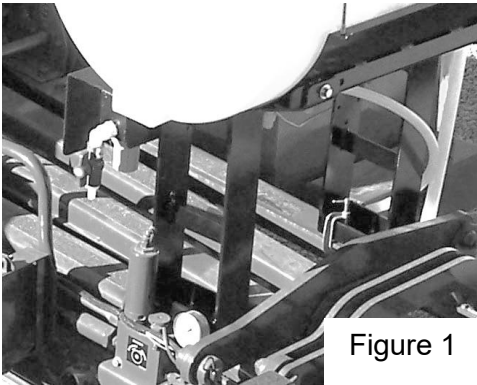


Figure 1

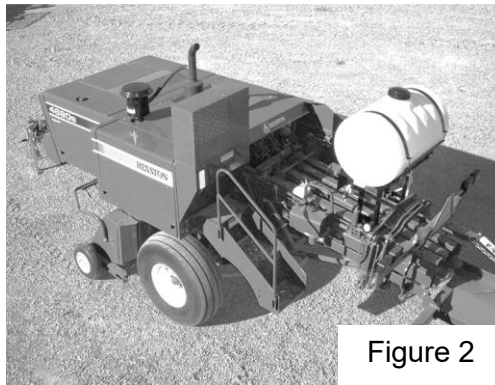


Figure 2



Figure 3

Drain Fill Line Kit (030-0493DFK)

Model 434 - Top Mounted Tanks

Using Parts Bag 1 and 3/4" hose. Locate the pre-drilled hole at the front of the bale chamber (Fig. 1). Secure valve assembly to baler using 5/16" x 3/4" carriage bolts (Fig. 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 (Fig. 3).

Side Mounted Tanks – Optional add on (not included with applicator kit)

Tank comes with a plug in the side tank. See general instructions below (for Model 750) if adding the drain fill line to applicator tank (Fig. 4).

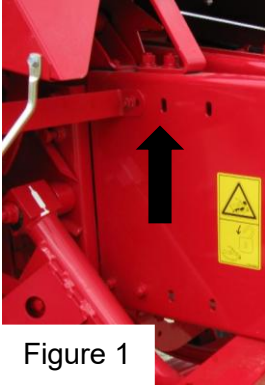


Figure 1

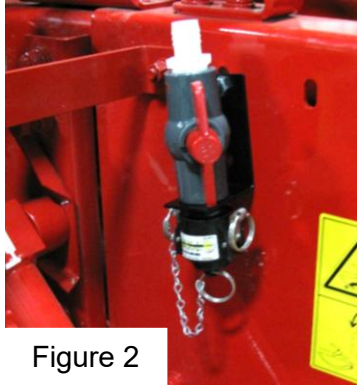


Figure 2

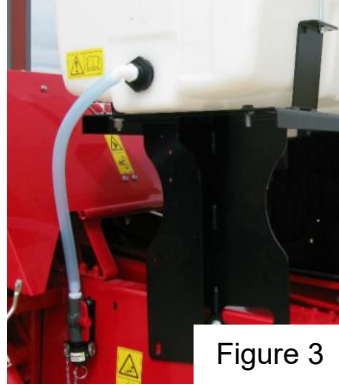


Figure 3

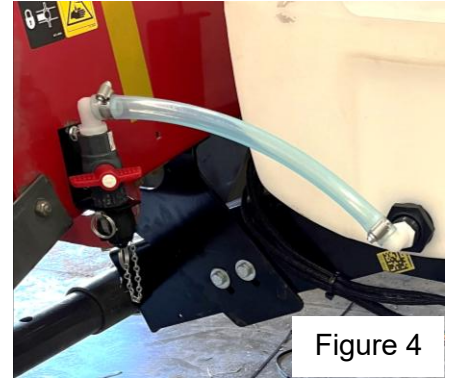


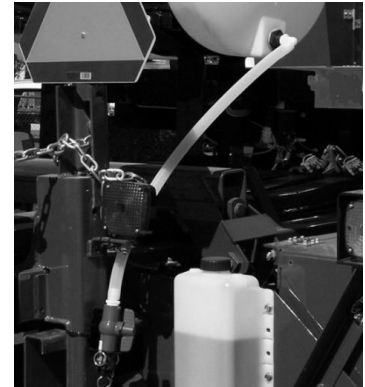
Figure 4

Model 440

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.

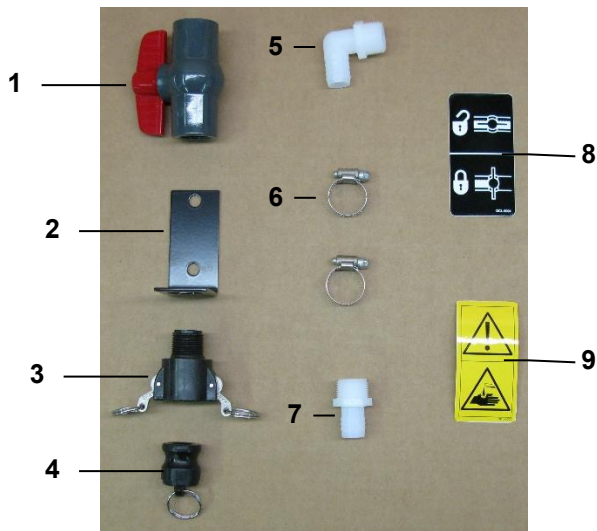
Model 448

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.



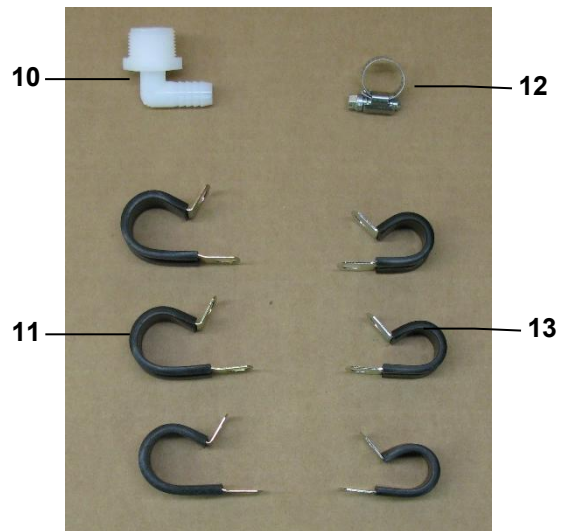
Parts Bag Packages and Hoses

PBA-1



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

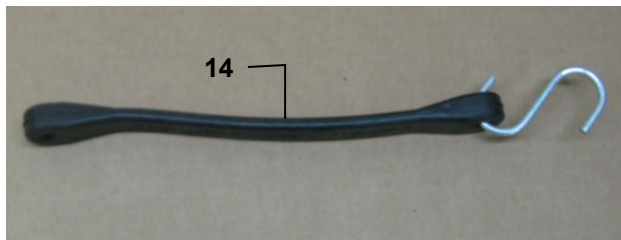
PBP-16



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

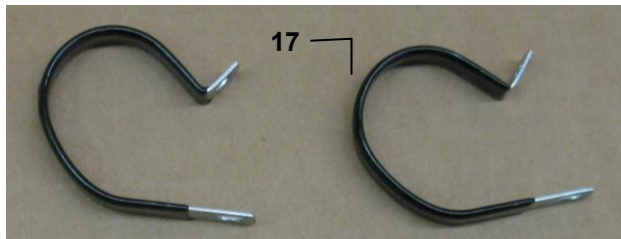
Complete Drain Fill Kit 030-0493DFK
(Includes 3/4" Hose Not Pictured)

PBP-12



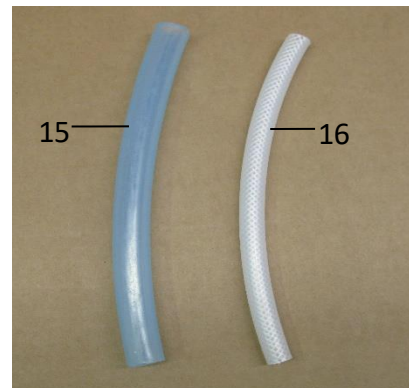
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
14	Door Latch	001-4703CL	1

PBP-17



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
17	Vinyl Clamp	008-9013	2

Hoses



<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

Pump and Filter Bowl Assembly – Electronic Applicators

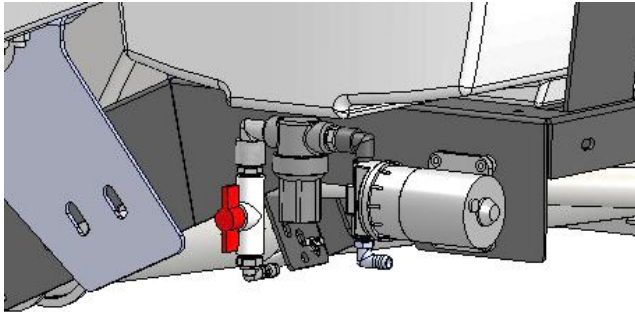
Installation Pump (007-4120S) and Filter Bowl Assembly (002-4315-80) is used with all Electronic Applicator systems. Use the appropriate mounting location for the model system version:

Model 434 Applicators:

Mount the pump on right leg in the pre-drilled holes as shown (right). Mount the pump with the intake facing down and wrap the cords underneath the pump to prevent damage or stress to them.

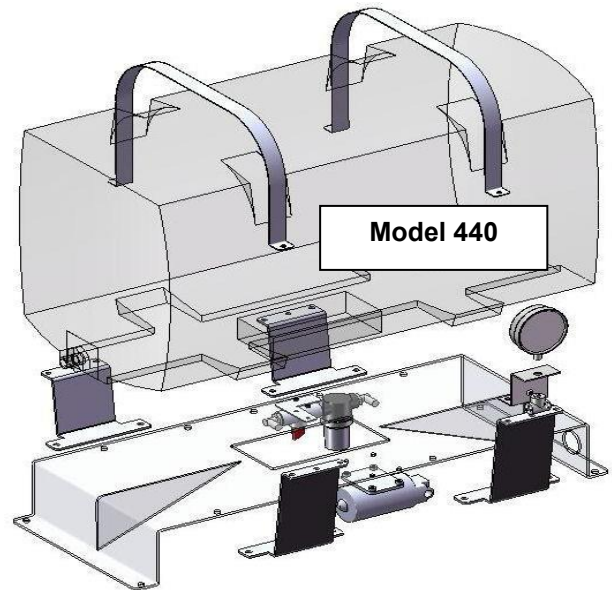
Model 434 Side-Mounted Applicators:

Mount the pump on left hand side of the tank saddle using the pre-drilled holes as shown (below).



Model 440 Applicators:

The pump and filter bowl assembly will mount to the predrilled holes on the underside of the Tank Saddle (001-4703C), using the hardware supplied on the pump. Filter bowl assembly may need to be clocked to allow for proper clearance and accessibility.

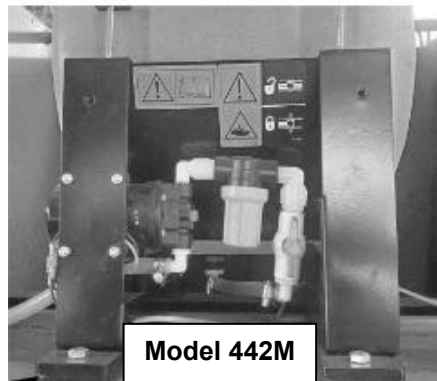


Model 441 Applicators:

The pump and filter bowl assembly are mounted directly onto the Tank Saddle (001-4401) and comes pre-installed.

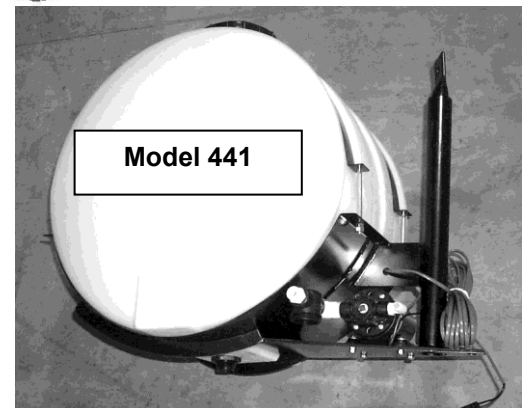
Model 442M Applicators:

Mount the electronic pump assembly to the inside of either the front or rear of Tank Saddle (001-4442), using the pre-drilled four holes and hardware supplied on the pump.



Model 448 Applicators:

The pump and filter bowl assembly will mount to the predrilled holes on the tank legs, using hardware supplied on pump.

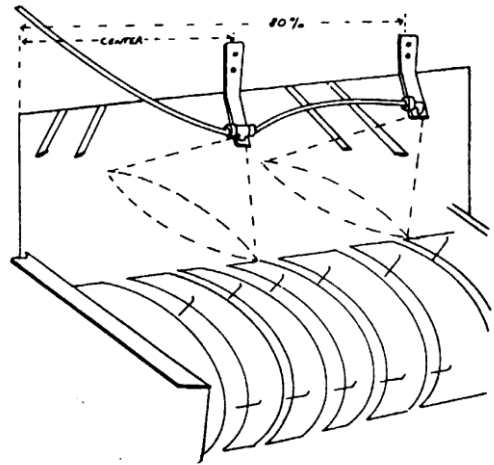


Placement of Spray Nozzle Assembly

Install Kit 4409

Spray Shield Assembly

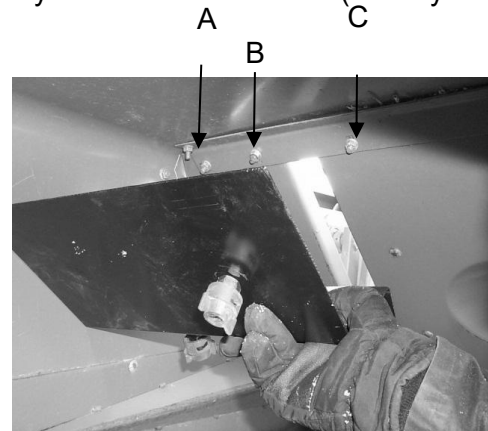
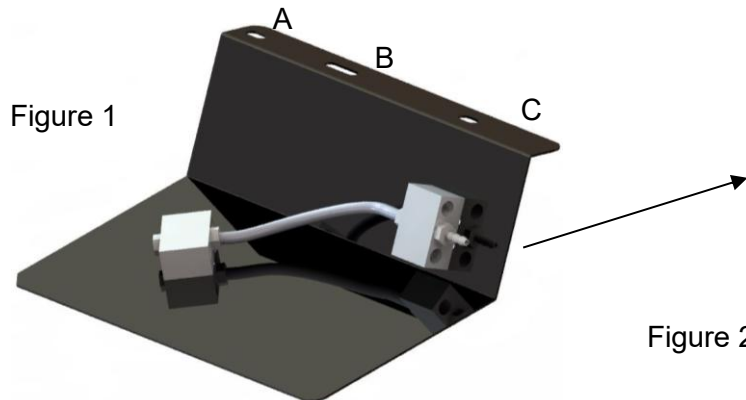
1. Mount the left-hand nozzle strap (it has an elbow fitting and a silver tip) so that it is approximately 80% across the width of the pick-up head. Example: if the head is 60" wide, locate the nozzle 48" from the right side of the head (60"x 80").
2. Mount the right-hand nozzle strap (it has a tee fitting 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" line will need to be run to the nozzle straps from the solenoid (auto systems) or hose manifold (electronic).



Install Kit 4410

Spray Shield Assembly (030-4410-SO)

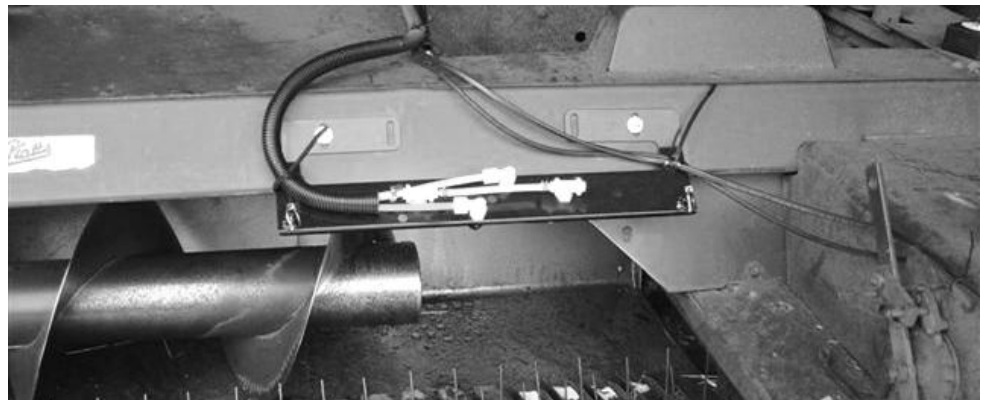
Install Hoses before installation of shield. Bolt the shield assembly (Figure 1) up under the baler's hood. Remove 3 bolts shown in Figure B (labeled A, B, C) on the baler and replace with hardware in kit to fasten lip securely in place. One 1/2" line will need to be run from the spray shield to the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



Install Kit 4412

Spray Shield Assembly

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 4415

Spray Shield Assembly (030-4415-SO)

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. Align nozzle at 45 degree angle inside the chamber.
17. Re-install hay guard onto the baler.

Installation of Hose and Support Bracket

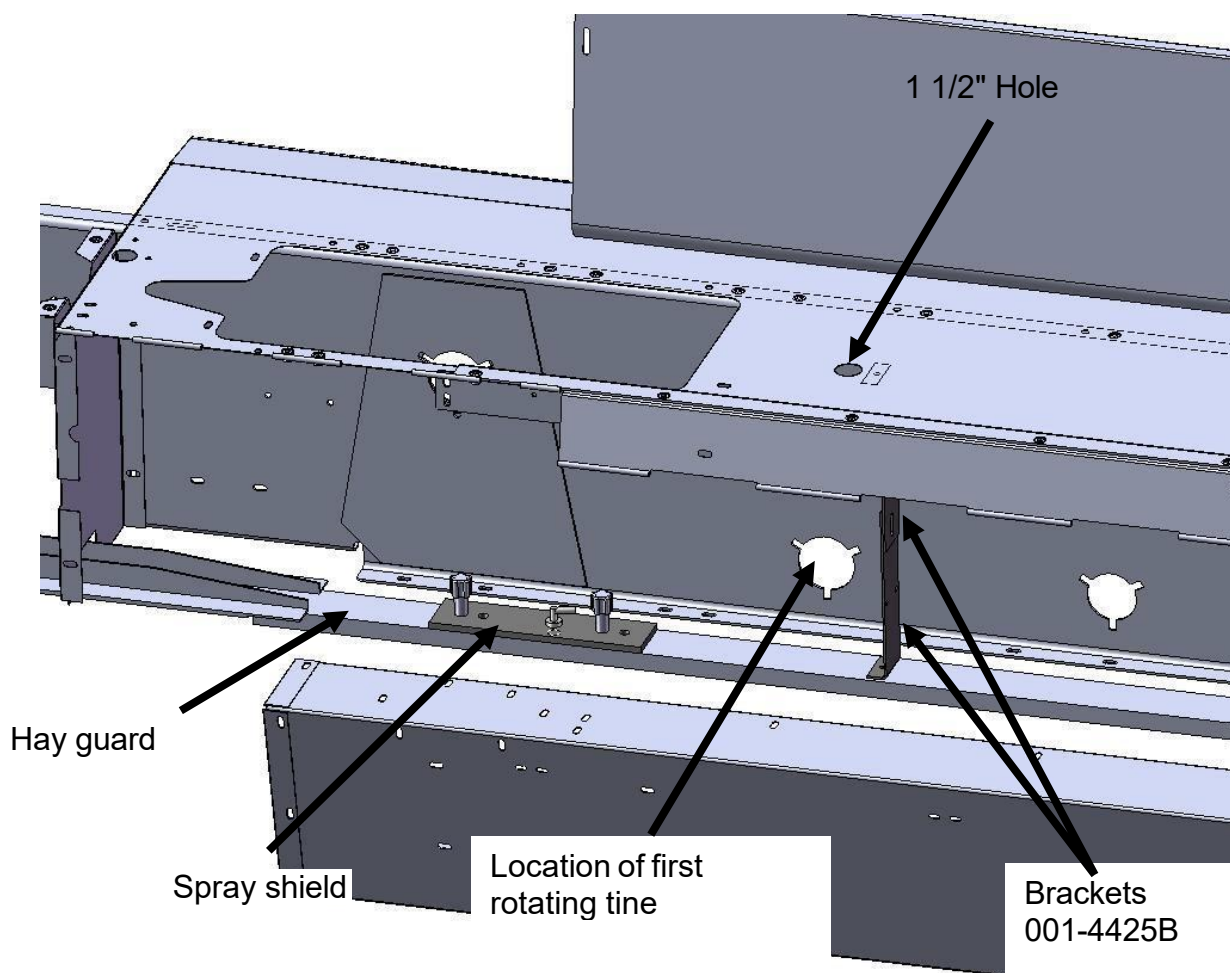
1. If the hay guard was removed for shield installation reinstall at this time.
2. Mark a point 6" (15cm) from the first rotating tine on the center of the hay guard. Center punch this mark and drill a 1/4" (7mm) hole through both the top and bottom of the hay guard.
3. Bolt the bottom bracket (001-4425B) 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 hose from the pump 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. Attach the hose, to the elbow, securing with the hose clamp.
9. Secure hose on the end of spray shield with jiffy clip (008-9010) and 1/4" x 1/2" round head screw.

Install Kit 4415 (continued)

Installation of Hose and Support Bracket (continued)

10. Install the hose from the shield under the hay time, to the bracket, and out the top.
11. Secure the hose to the bracket with two jiffy clips (008-9010) and 1/4" flange bolts and nuts. Keep the hose in the center of the bracket.
12. Run the hose through the top of the baler and down towards the tank. Use the supplied jiffy clips (008-9010) to secure hose in route to the pump.
13. Connect the hose to the pump. See plumbing section.

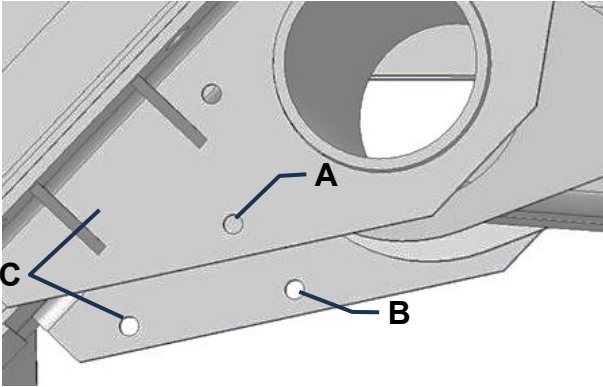
View from behind the twine box with the inspection door open:



Install Kits 4416, 4416-SO, 4417, 4418 & 4485

Spray Shield Assembly (030-4416-SO)

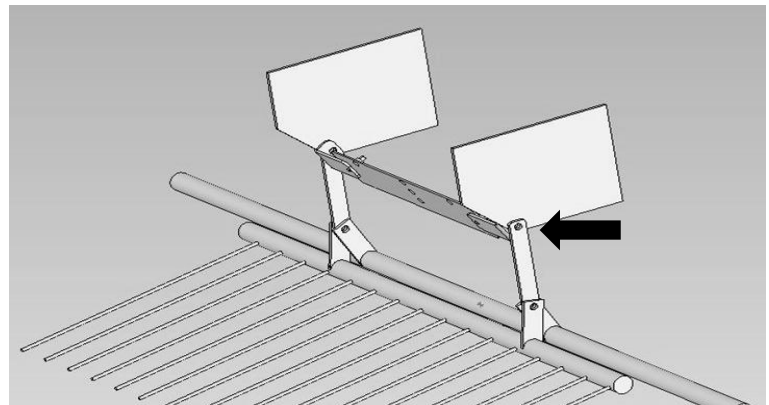
On baler tongue above center of the baler, Shield Holders (001-4424B) will be installed on both sides of baler tongue using pre-drilled holes. Loosely attach shield holders to the Spray Shield (001-4424A2) using two 3/8" bolts, washers, lock and nuts. Loosely bolt the LH hanger bracket to the baler using the factory hole (A) and supplied 3/8" hardware. Loosely bolt the RH hanger to baler using the front factory hole on the RH side of the baler (B). Tighten hardware to secure hanger brackets to baler. If desired, drill and attach a second bolt for shield holder brackets (C). Center and adjust the angle of the spray shield assembly. Angle the spray shield toward back of pickup, between augers, to the area before crop enters bale chamber. Tighten all hardware.



Install Kit 4502

Spray Shield Assembly

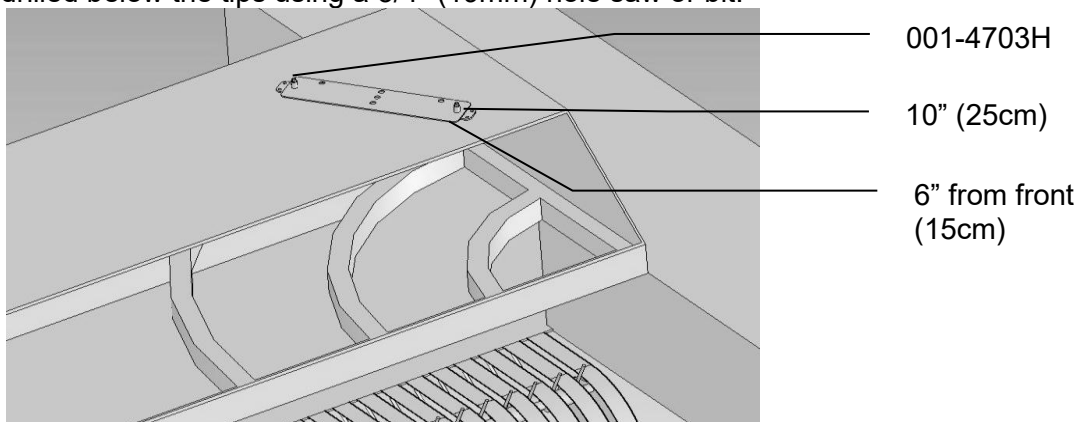
The shield for your baler will mount in the throat of the baler as shown. Remove nut and bolt on both sides of baler, as indicated. Install shield holders (001-4703I) with 1/2 x 2" bolts, nuts, locks and flat washers. Do not tighten these bolts until the shield is properly aimed. Aim the shield at bottom 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 4506

Spray Shield Assembly

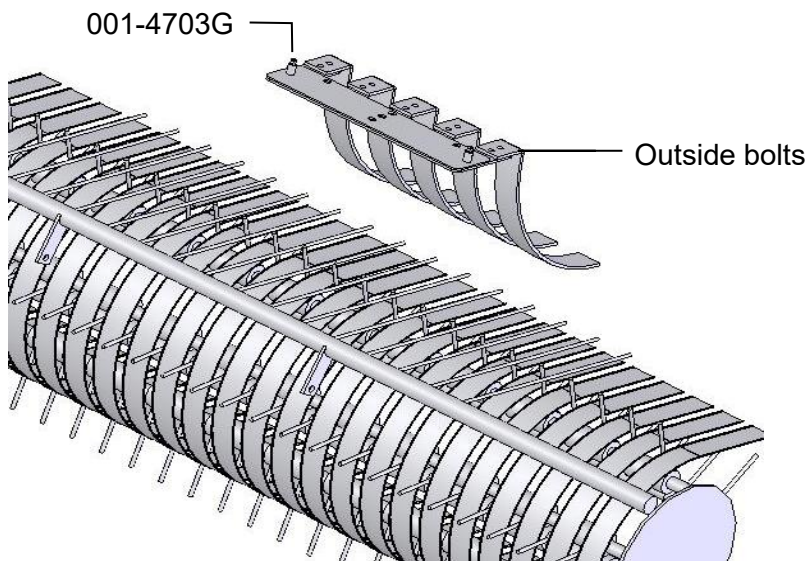
The shield for your baler will mount on top of the sheet metal directly above the pickup head shown in the picture below. Mount shield holder (001-4703H) on top of metal 6" (15cm) from the front of the baler and 10" (25cm) from the side of the baler. Attach this holder with 1/4 x 1 1/4" self-tapping bolts. Place shield of 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 4507

Spray Shield Assembly

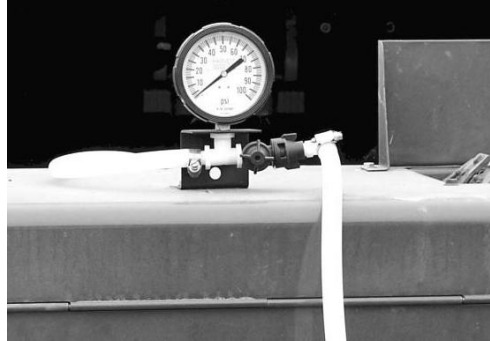
The shield for your baler will mount on the wrap guard as shown in the picture below. Remove the two outside bolts on each side of the wrapper guard. Place bracket 001-4703G so pins are facing up and bolt through with 3/8 x 1-1/2" into bracket 001-4703G, through wrap guard, and into threaded holes on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



Pressure Gauge Installation

Pressure gauge will be viewed frequently by the operator while baling and must be placed in a suitable location in the chemical supply line between the pump and the spray tips. Gauge holder can be bolted to a variety of surfaces, and location is at the discretion of the installer.

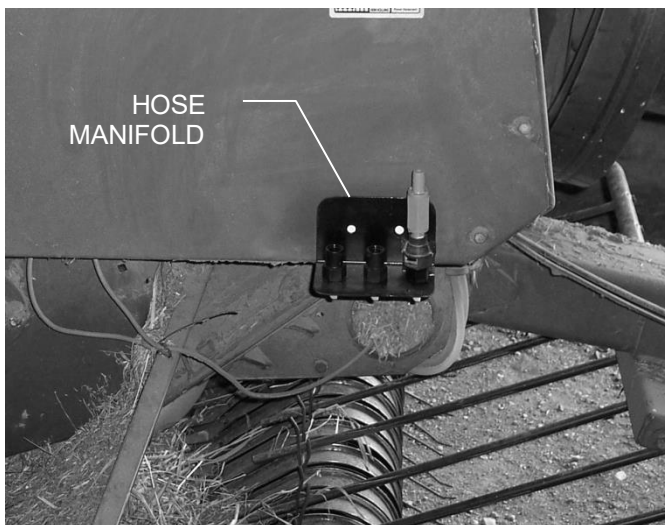
On square balers, the gauge is normally best viewed if it is located on the top sheet metal above the pickup head. The gauge pats bag is also supplied with an elbow fitting, for use if necessary.



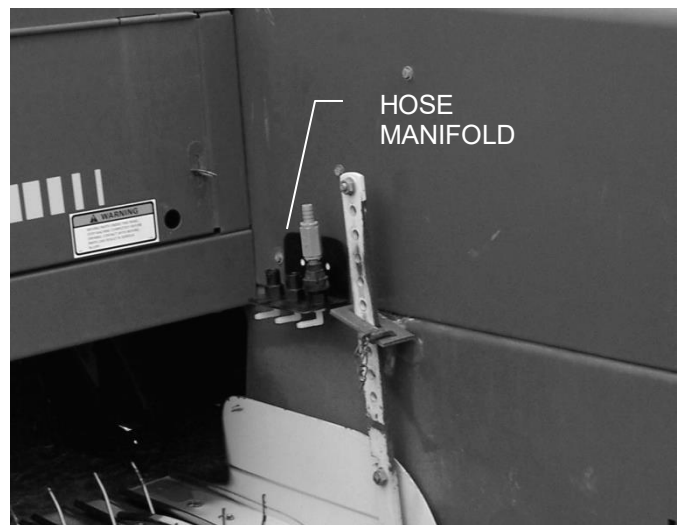
Hose Manifold Mounting (030-4720)

Mount the hose manifold on the front of the baler in the area of the spray shield. Make sure the bracket will not interfere with any baler operations.

The hose manifold is not used with installation kits 4415 & 4415-SO.



AGCO & Case IH inline balers



New Holland & Case IH
SBX With 4409 install kit

Plumbing – Hose Routing

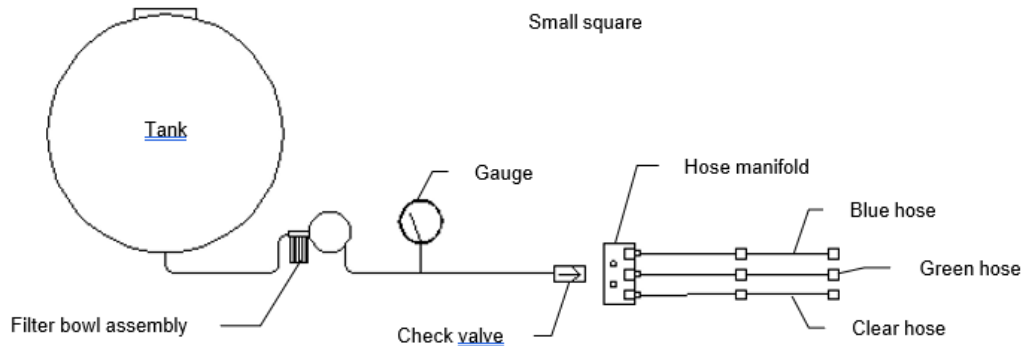
Intake

Screw the 3/4" to 1/2" elbow fitting (003-EL3412) into the bottom of the tank. Second screw the 1/2" ball valve (002- 2212) with elbow into the filter assembly. Lastly, route the 1/2" hose (002-9001) from bottom of the tank to ball valve. Secure with hose clamps.

Outlet

4409, 4410, 4416, 4485, 4502, 4506 and 4507 Installation Kits

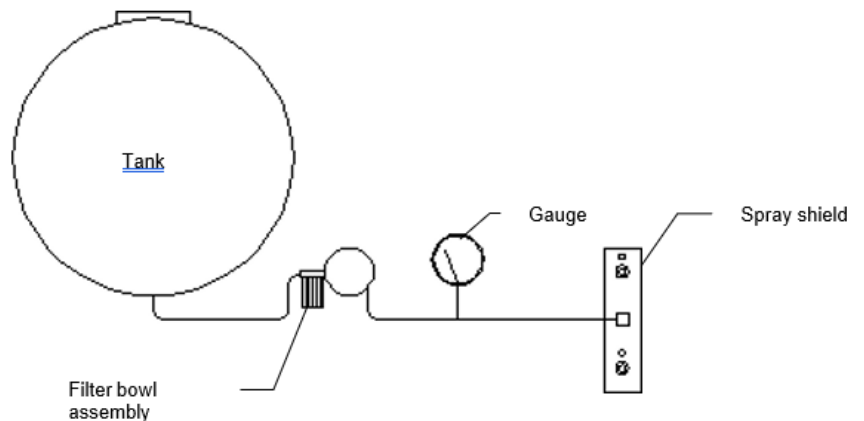
Run hose from the pump outlet to the gauge. The gauge is assembled with two straight fittings; an elbow is supplied in the parts bag to be used if necessary. From the gauge the hose will need to be run to the hose manifold. Cut the hose to length and attach the check valve (002-4564X) and female coupler (004-1207H) to the hose manifold. Use supplied caps (004-1207F) to cover the remaining female disconnects (004-1207G).



Outlet

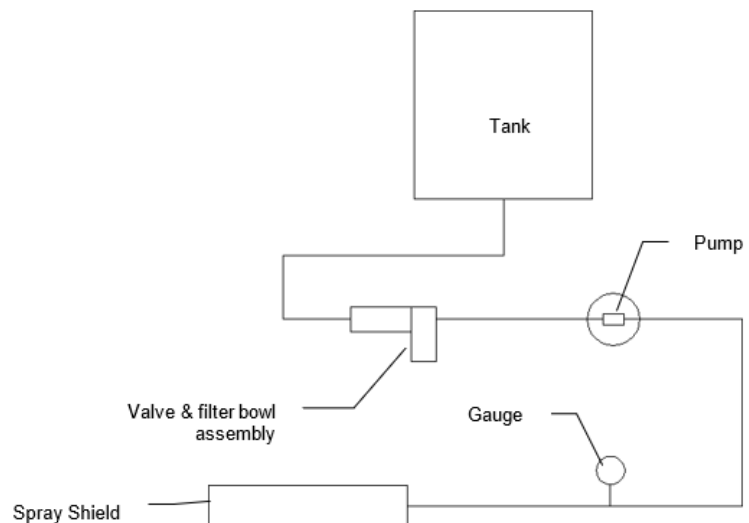
4415 Installation Kit with round 25-gallon tank

Run hose from the pump outlet to the gauge. The gauge is assembled with two straight fittings; and elbow is supplied in the parts bag to be used if necessary. From the gauge the hose will need to be run to the spray shield.

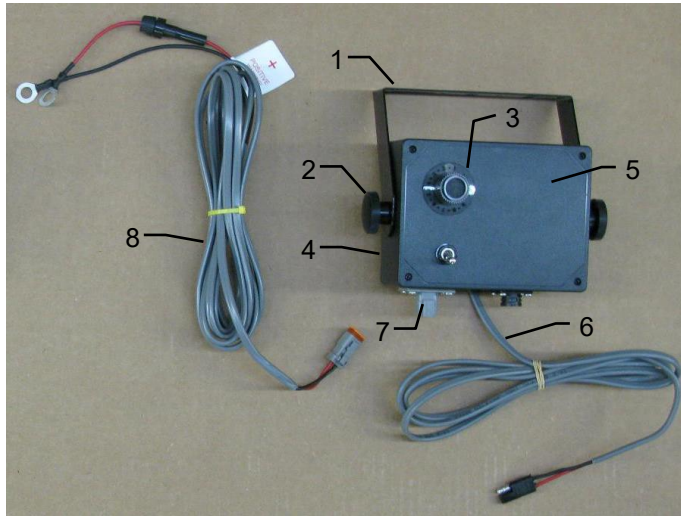


4415 Installation Kit with square 55-gallon tank

Run hose from the pump outlet to the gauge. The gauge is assembled with two straight fittings; and elbow is supplied in the parts bag to be used if necessary. From the gauge the hose will need to be run to the spray shield.



Model 457 Control Box



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	U-Bracket Mount	001-2012E	1
2	Control Box Mount Knob	008-0923	2
3	Speed Dial Knob	006-2022A	1
<u>For Controls After Serial # 4550:</u>			
4	Control Box Enclosure	006-2015A	1
5	Control Box Cover	006-2015B	1
6	Pump Lead	006-4583	1
7	Box Plug	006-4580M	1
8	Power Lead	006-4581M	1
NP	Baler Pump Harness (26')	006-4574	1
NP	Baler Pump Harness (35')	006-4575	

Complete Replacement Control Box 030-0457

Installation of Control Box (030-0457)

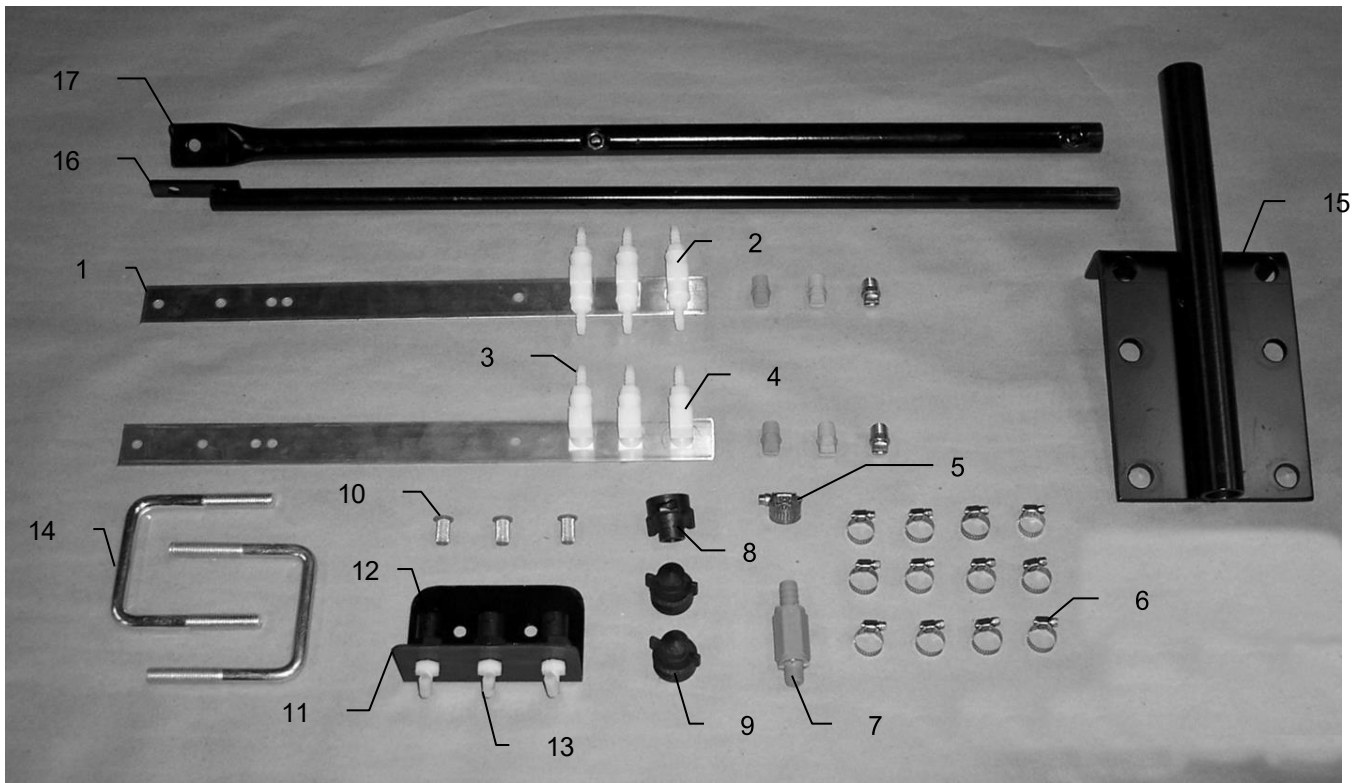
Locate parts bag 13 for hardware to mount control box in a suitable location within the tractor cab.

Route the wire to the starter solenoid on all 12v tractors. Connect the green lead marked + to the hot terminal on the starter. Connect the black lead to a good ground. **Do not reverse the leads.** Be sure to use a voltmeter to verify that you do have 12 volts running to the box.

Note: For tractors with 24v starters, connect the power leads to the tractor's right hand battery. Do not connect the leads to the starter. Connect the lead marked + to the positive battery terminal and the lead marked- to the negative on the battery. Wiring connections to the battery normally results in corrosion; terminal coating is recommended.

Caution: Do not run a pump or use an electronic control box directly off a battery charger. For stationary use, the applicator can be connected to a new battery and the battery connected to a charger

4409 Installation Kit



<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Nozzle strap	001-4215	2	Tip – Silver	004-T650050-SS	2
2	Tee	003-TT14SQ	3	Tip – Pink	004-T6501-PT	2
3	Straight fitting	003-A1414	9	Tip – Red	004-T6502-PT	2
4	Elbow	003-SE14F	3	Washer	004-1207W	3
5	Hose clamp	003-9003	1	Hose	002-9016	9 ft.
6	Hose clamp	003-9002	12			
7	Check valve	002-4564X	1			
8	Female disconnect	004-1207H	1			
9	Shutoff cap	004-1207F	2			
10	Tip screen	004-1203-200	3			
11	Hose manifold	001-4720	1			
12	Female coupler	004-1207G	3	Hose Manifold Kit (7-13)	030-4720	
13	Elbow	003-EL1414	3			
14	U bolt	001-4406A	2	Tank Mount Kit (14-17)	TMK-4401	
15	Mounting manifold	001-4406	1			
16	Inside reach rod	001-4405	1	Complete Assembly	030-4409	
17	Outside reach rod	001-4404	1			

4410 Installation Kit



<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>		<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray Shield	001-4426A	1	13	Hose clamp	003-9002	12
2	Manifold Block	003-4435NSB	2	14	Tip – Silver	004-T650050-SS	2
3	Straight Fitting	003-A1414	9	15	Tip – Pink / Grey	004-T6501-PT	2
	Hex Plug	002-F14	3	16	Tip – Red / Grey	004-T6502-PT	2
4	Check Valve	002-4564X	1	17	Hose -White	002-9016	6 ft.
5	Hose Clamp	003-9003	1		Hose- Blue Stripe	002-9016B	6 ft.
6	Shutoff Cap	004-1207F	2		Hose- Green Stripe	002-9016G	6 ft.
7	Female Disconnect	004-1207H	1	18	Outside Reach Rod	001-4404	1
8	Washer	004-1207W	3	19	Inside Reach Rod	001-4405	1
9	Tip strainer	004-1203-200	3	20	Mounting bracket	001-4406	1
10	Hose manifold	001-4720	1	21	U bolt	001-4406A	2
11	Female coupler	004-1207G	3	22	Mounting Hardware	Gen Hardware	
12	Elbow	003-EL1414	3				

Spray Shield Only (1-17)

Tank Mount Kit (18-21)

Manifold Kit (4-12)

Complete Assembly

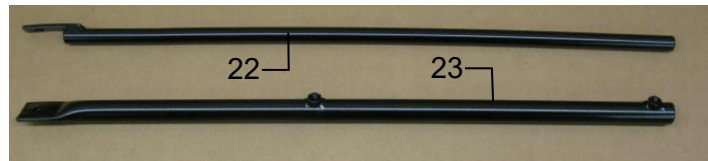
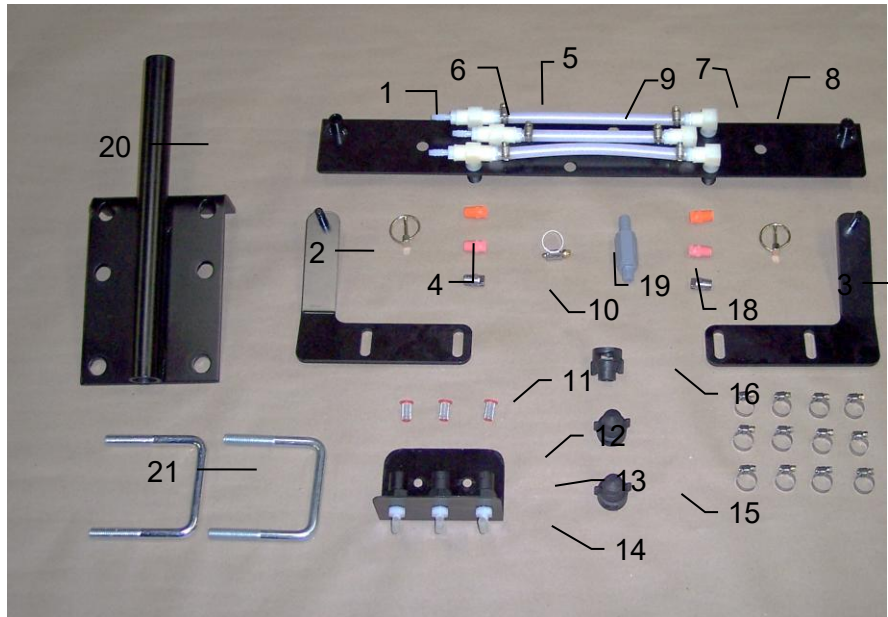
030-4410-SO

TMK-4401

030-4720

030-4410

4412 Installation Kit

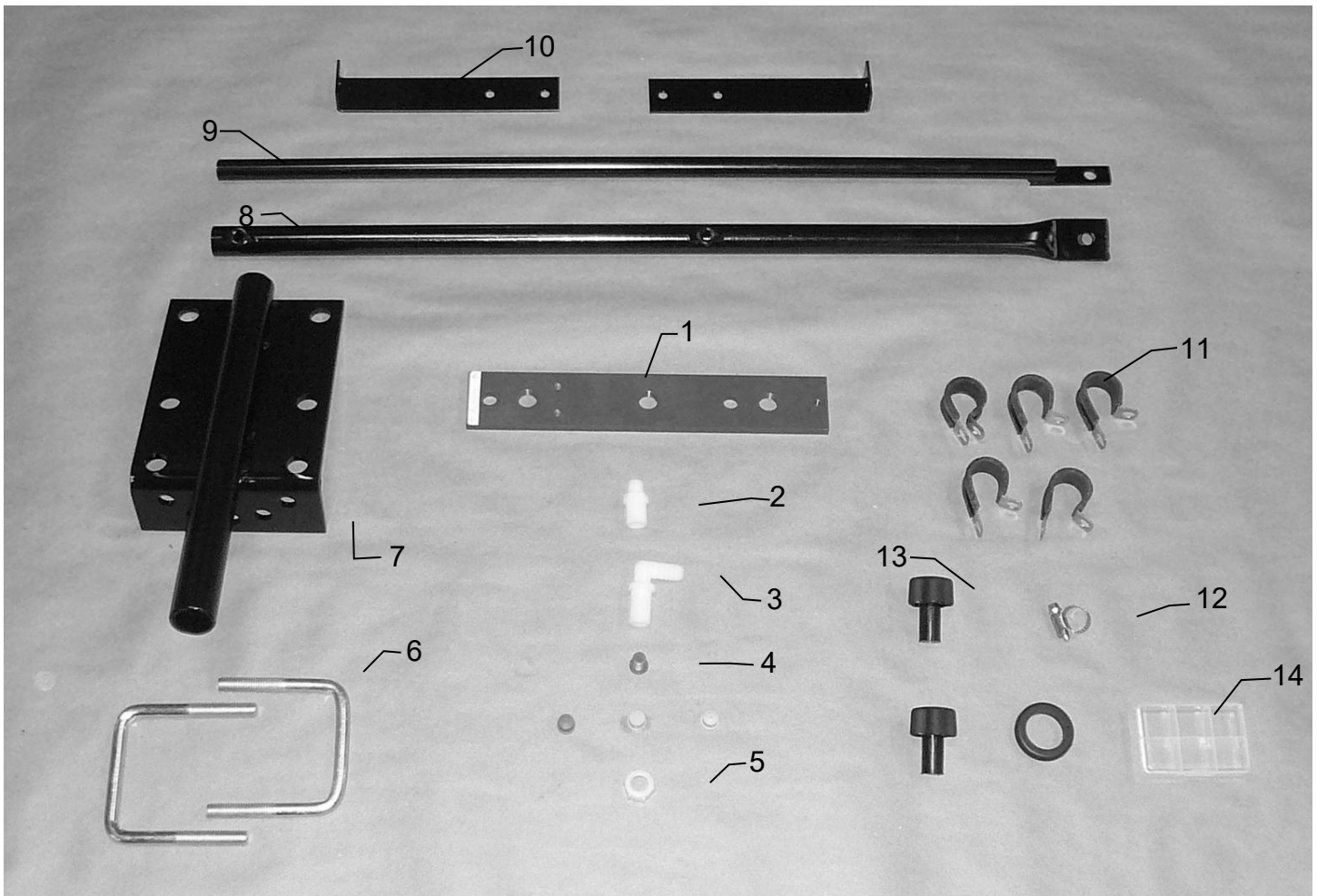


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray Shield	001-4810	1	11	Tip Strainer -200	004-1203-200	3
2	Left Mounting Bracket	001-4436DL	1	12	Hose Manifold Bkt.	001-4720	1
3	Right Mounting Bracket	001-4436DR	1	13	Female Coupler	004-1207G	3
4	Lynch Pin	007-4576	2	14	Elbow	003-EL1414	3
5	1/4" Sq Tee	003-TT14SQ	3	15	Shut-off Cap	004-1207F	2
6	1/4" x 1/4" Straight Ftg.	003-A1414	9	16	Quick Connect	004-1207H	1
7	Mini Hose Clamp	003-9002	12	NP	Rubber Washer	004-1207W	3
8	1/4" Female St Elbow	003-SE14F	3	18	Check Valve	002-4564X	1
9	1/4" Braided Hose	002-9016	3 ft.	19	Hose Clamp	003-9003	1
	Braided Hose – Blue	002-9016B	3 ft.				
	Braided Hose – Green	002-9016G	3 ft.				
10	Tip* -Low Output	004-T650050-SS	2	20	Base Bracket	001-4406	1
	Tip* -Med Output	004-T6501-PT	2	21	1/2" x 4" U-Bolt	001-4406A	2
	Tip* -High Output	004-T6502-PT	2	22	Reach Rod – Inner	001-4405	1
				23	Reach Rod – Outer	001-4404	1

* Tip color subject to change

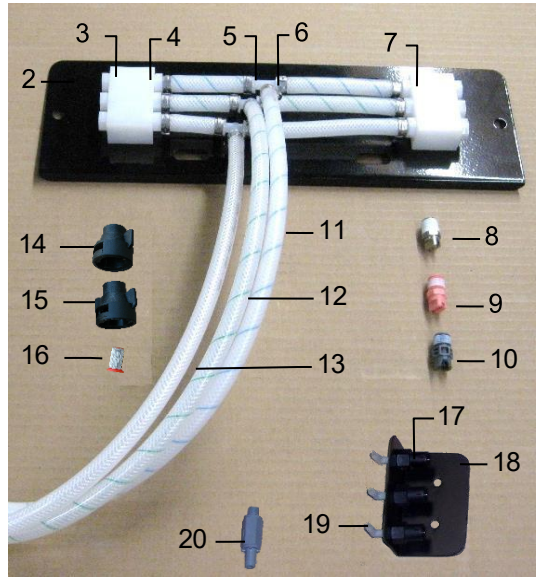
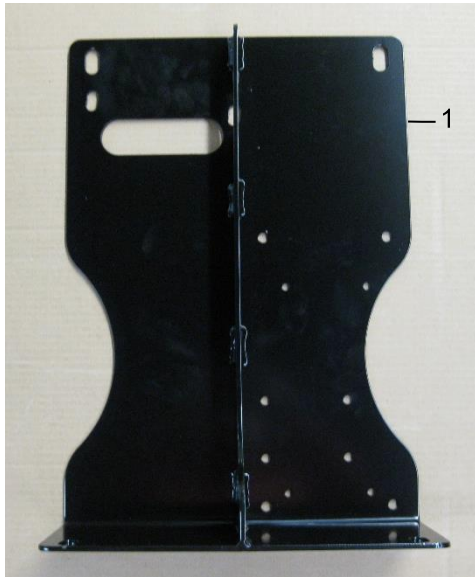
Hose Manifold Kit (Ref 11-19)	TMK-4401
Tank Mount Kit (Ref 20-23)	TMK-4401
Complete Assembly	030-4412

4415 Installation Kit and 4415-SO Installation Kit



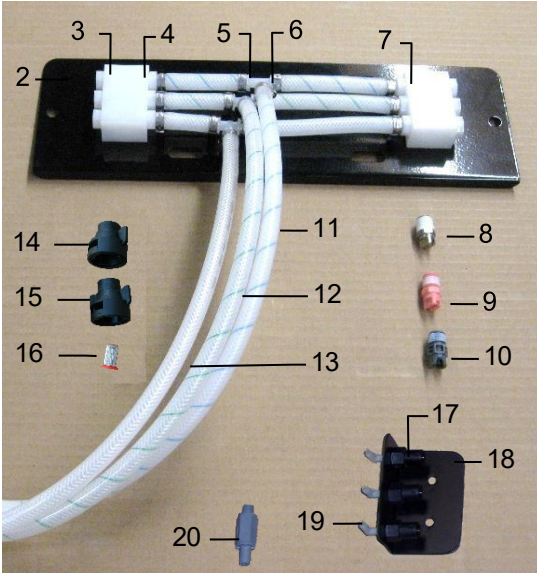
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray Shield	001-4425C	1	Tip – Orange	004-TX-SS-6	1
2	Nozzle Body	003-M3814NB	1	Tip – Blue	004-TX-SS-12	1
3	Nozzle Body Elbow	003-EL3812NB	1	Tip – Yellow	004-TX-SS-26	1
4	Tip Screen w/ Check	004-4213-100	1			
5	Nozzle Cap	003-BC12	1	Spray Shield Only	030-4415-SO	
6	U Bolt	001-4406A	2	(Parts 1-5, 10-14 and Tips)		
7	Mounting Bracket	001-4406	1			
8	Outside Support Rod	001-4404	1	25 gal. Tank Mount Kit	TMK-4401	
9	Inside Support Rod	001-4405	1	(Parts 6-10)		
10	Bracket	001-4425B	2			
11	Jiffy Clip	008-9010	5	Complete Assembly	030-4415	
12	Hose Clamp	003-9003	1			
13	Knob	008-0925	2			
14	Plano Tip Box	008-9001	1			

4416 Installation Kit 4416-SO 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	Saddle Legs	001-4703Q	2	14	1/4" Female Disconnect	004-1207H	1
2	Spray Shield	001-4424A2	1	15	Shut off cap	004-1207F	2
NP	Spray Sheild Holder	001-4424B	2	16	Tip Strainer (200 mesh)	004-1203-200	3
3	Plug	003-F14	6	17	Female coupler	004-1207G	3
4	Manifold Block	001-4435NSB	2	18	Hose bracket	001-4720	1
5	1/2" Otiker Clamp	003-9008	15	19	Elbow	003-EL1414	6
6	1/4" Tee	003-T1414	3	20	Check valve	002-4564X	1
7	1/4" Straight fitting	003-A1414	3	21	Kicker Bracket	001-4703QC	1
8	Tip (low)	004-T650050-SS	2	NP	Spray Shield Holders	001-4424B	2
9	Tip (med)	004-T6501-PT	2	NP	Mini Hose Clamp	003-9002	3
10	Tip (high)	004-T6502-PT	2	NP	Hose Clamp #6	003-9003	1
11	1/4" Hose (green)	002-9016G	4	Tank Mount Kit (1, 21) Spray Shield Only (2-20) Hose Manifold Kit (14-20) Complete Assembly			TMK-4416
12	1/4" Hose (blue)	002-9016B	4				030-4416-SO
13	1/4" Hose (clear)	002-9016	4				030-4720
			030-4416				

4417 Installation Kit

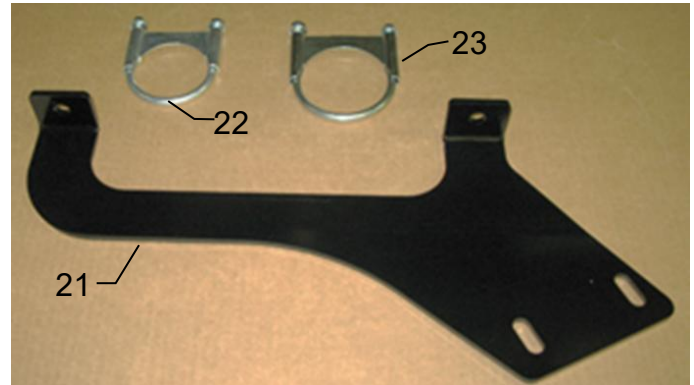
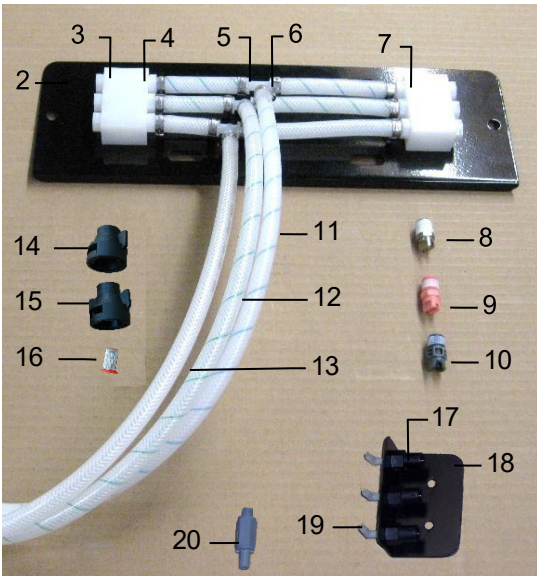


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
NP	Spray Shield Holder	001-4424B	2
2	Spray Shield	001-4424A2	1
3	Plug	003-F14	6
4	Manifold Block	001-4435NSB	2
5	1/2" O-tiker Clamp	003-9008	15
6	1/4" Tee	003-T1414	3
7	1/4" Straight fitting	003-A1414	3
8	Tip (low)	004-T650050-SS	2
9	Tip (med)	004-T6501-PT	2
10	Tip (high)	004-T6502-PT	2
11	1/4" Hose (green)	002-9016G	4
12	1/4" Hose (blue)	002-9016B	4
13	1/4" Hose (clear)	002-9016	4

<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
14	1/4" Female Disconnect	004-1207H	1
15	Shut off cap	004-1207F	2
16	Tip Strainer (200 mesh)	004-1203-200	3
17	Female coupler	004-1207G	3
18	Hose bracket	001-4720	1
19	Elbow	003-EL1414	6
20	Check valve	002-4564X	1
NP	Hose Clamp #6	003-9003	1
NP	Mini Hose Clamp	003-9002	3
21	Support Bracket	001-4703QU	1
22	3-7/8" U-Bolt	001-4703QUX	2
23	2-7/8" U-Bolt	001-4703QUB	2

Spray Shield Only Assembly (1-20) 030-4416-SO
Hose Manifold (14-20) 030-4720

4418 Installation Kit

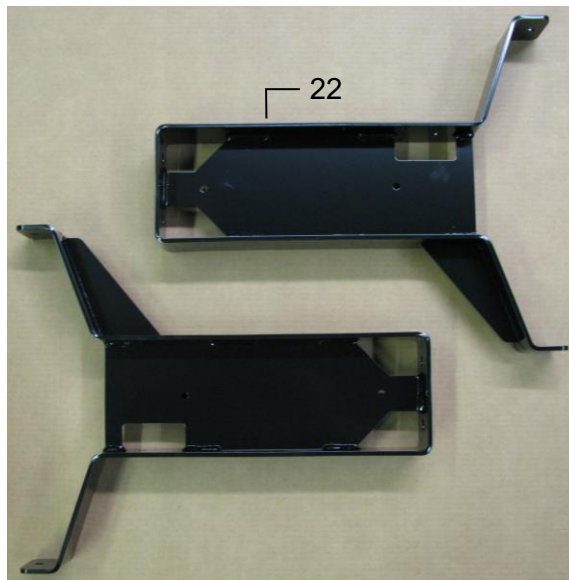
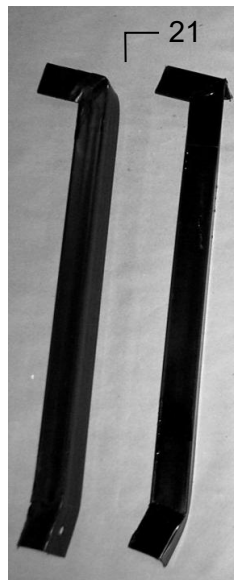


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
NP	Spray Shield Holder	001-4424B	2
2	Spray Shield	001-4424A2	1
3	Plug	003-F14	6
4	Manifold Block	001-4435NSB	2
5	1/2" Otiker Clamp	003-9008	15
6	1/4" Tee	003-T1414	3
7	1/4" Straight fitting	003-A1414	3
8	Tip (low)	004-T650050-SS	2
9	Tip (med)	004-T6501-PT	2
10	Tip (high)	004-T6502-PT	2
11	1/4" Hose (green)	002-9016G	4
12	1/4" Hose (blue)	002-9016B	4
13	1/4" Hose (clear)	002-9016	4

<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
14	1/4" Female Disconnect	004-1207H	1
15	Shut off cap	004-1207F	2
16	Tip Strainer (200 mesh)	004-1203-200	3
17	Female coupler	004-1207G	3
18	Hose bracket	001-4720	1
19	Elbow	003-EL1414	6
20	Check valve	002-4564X	1
NP	Hose Clamp #6	003-9003	1
NP	Mini Hose Clamp	003-9002	3
21	Support Bracket	001-4703QT	1
22	2-7/8" U-Bolt	001-4703QUB	1
23	3-3/4" U-Bolt	001-4703QTB	2

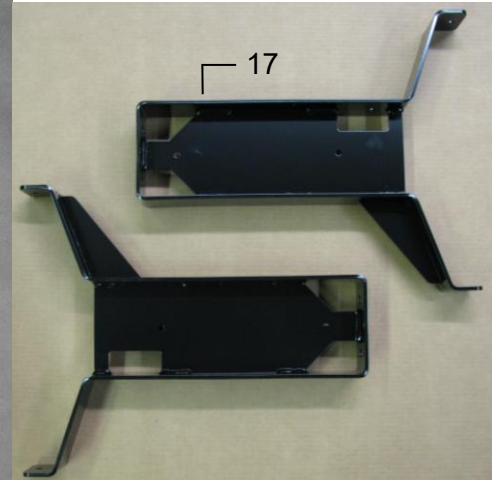
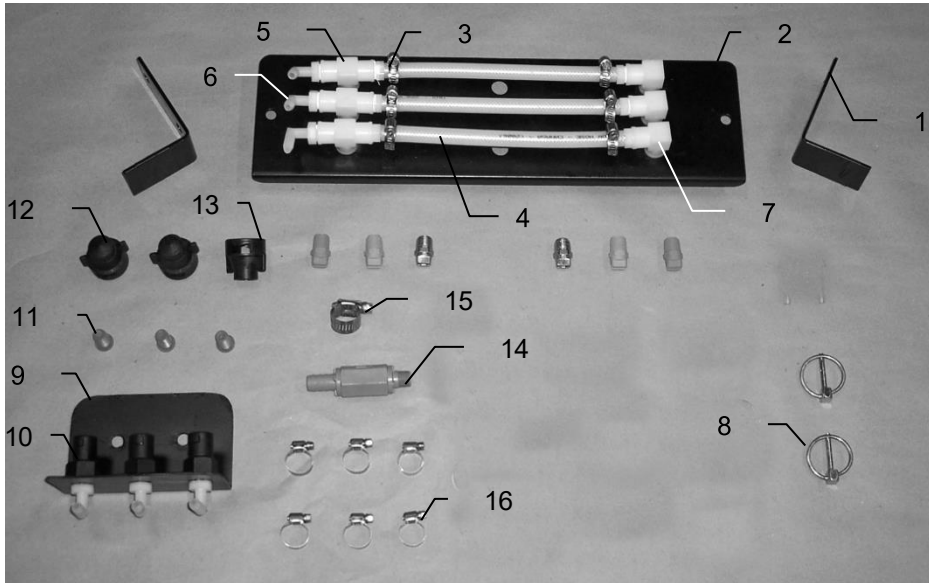
Spray Shield Only (1-20)
Hose Manifold (14-20)

030-4416-SO
030-4720



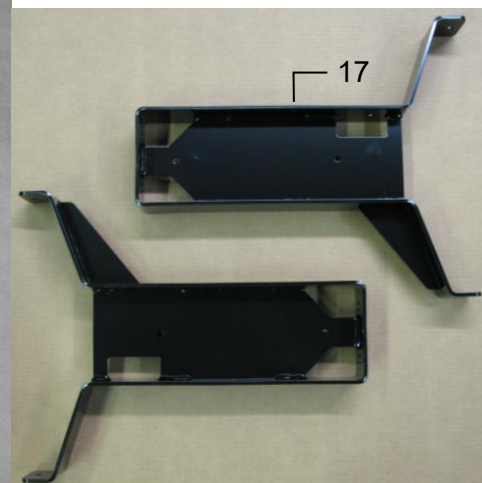
34

4502 Installation Kit



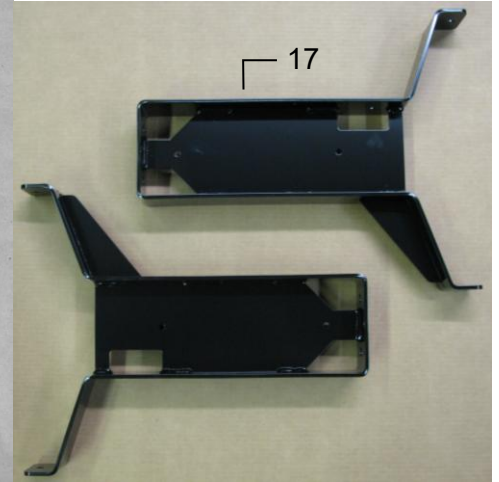
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1	Shield Holder	001-4703I	2	NP	Tip – Low	004-T650050-SS	2
2	Spray Shield	001-4703G	1	NP	Tip – Med	004-T6501-PT	2
3	Straight Fitting	003-A1414	6	NP	Tip – High	004-T6502-PT	2
4	Hose	002-9016	9 ft				
5	Tee	003-TT14SQ	3				
6	Elbow	003-EL1414	6		Tank Mount Kit	TMK-4703B	
7	Elbow	003-SE14F	3		(parts 17 only)		
8	Lynch Pin	008-4576	2				
9	Hose Bracket	001-4720	1		Hose Manifold Kit	030-4720	
10	Female Coupler	004-1207G	3		(parts 9-15 only)		
11	Tip Strainer	004-1203-200	3				
12	Shutoff Cap	004-1207F	2				
NP	Cap Washer	004-1207W	3	Complete Assembly	030-4502		
13	Female Disconnect	004-1207H	1				
14	Check Valve	002-4564X	1				
15	Hose Clamp	002-9003	1				
16	Hose Clamp	003-9002	12				
17	Saddle Leg	001-4703B	2				

Model 4506 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	Shield holder	001-4703H	2		Tip – Low	004-T650050-SS	2
2	Spray shield	001-4703G	1		Tip – Med	004-T6501-PT	2
3	Straight fitting	003-A1414	6		Tip – High	004-T6502-PT	2
4	Tee	003-TT14SQ	3	NP	Washer	004-1207W	3
5	Elbow	003-SE14F	3				
6	Hose clamp	003-9002	12				
7	Hose	002-9016	6				
8	Elbow	003-EL1414	6	Tank Mount Kit (17)		TMK-4703B	
9	Hose clamp	003-9003	1				
10	Check valve	002-4564X	1	Hose Manifold Kit (9-15)		030-4720	
11	Hose bracket	001-4720	1				
12	Female coupler	004-1207G	3	Complete Assembly		030-4506	
13	Tip strainer	004-1203-200	3				
14	Shutoff cap	004-1207F	2				
15	Female disconnect	004-1207H	1				
16	Lynch pin	008-4576	2				
17	Saddle leg	001-4703B	2				

4507 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	Shield holder	001-4703J	2		Tip – Low	004-T650050-SS	2
2	Spray shield	001-4703G	1		Tip – Med	004-T6501-PT	2
3	Straight fitting	003-A1414	6		Tip – High	004-T6502-PT	2
4	Tee	003-TT14SQ	3	NP	Washer	004-1207W	3
5	Elbow	003-SE14F	3				
6	Hose clamp	003-9002	12				
7	Hose	002-9016	6				
8	Elbow	003-EL1414	6	Tank Mount Kit (17)		TMK-4703B	
9	Hose clamp	003-9003	1				
10	Check valve	002-4564X	1	Hose Manifold Kit (9-15)		030-4720	
11	Hose bracket	001-4720	1				
12	Female coupler	004-1207G	3	Complete Assembly		030-4507	
13	Tip strainer	004-1203-200	3				
14	Shutoff cap	004-1207F	2				
15	Female disconnect	004-1207H	1				
16	Lynch pin	008-4576	2				
17	Saddle leg	001-4703B	2				

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 6/22

**HARVEST TEC, LLC.
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