

Installation Manual

Model 431, 441, 442, & 448

***Preservative Applicator Systems
for Round Balers***



HarvestTec[®]

EST. 1976

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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 Round Balers

Electronic Applicator Systems

Baler Make	Baler Model	Base Kit	Tank Size	Install Kit
AGCO	5134, 5415, 550	441	25gal	4484
	(5446, 5456, 5545, 5545 Standard and Silage) (2745, 2746, 2746A, 2756A, 2766)	448	55gal	4508
	2846, 2846A, 2856, 2856A, 2946, 2946A, 2956, 2956A	448	55gal	4524
Case IH	(8400 Series); RB444, RBX 442, 443, 451, 461, 561	441	25gal	4484
	RB 454,464, RBX 452, 453, 462, 463	442	25gal	442-SO
	RB 554, 564, RBX 552, 553, 562, 563, 564	442	55gal	442-SO
	RB 455, 465, 560, 565	442C	55gal	442C
	RB455A Utility Baler	442U	25gal	442U
	RB456, 466 HD Pro Models	442P	55gal	442P
	Utility Plus Baler	442UP	25gal	442UP
Challenger	RB 34, 44, 45, 452	441	25gal	4484
	RB 46, 56	448	55gal	4508
	RB 453, 453A, 463, 463A, 563, 563A, RB56C, RB56CA	448		4524
Claas	Rollant Fixed Chamber, Variant Balers	441	25gal	4484
Hesston	(500 Series: 530, 540, 545, 550, 555S, 555T, 560, 565A, 565T) (700 Series - 730, 740, 745); (5400, 5500, 5600, 5800 Series Fixed Chamber) (814 Fixed Chamber)	441	25gal	4484
	(800 Series - 845, 846A, 855, 856); (900 Series - 946, 955, 956)	448	55gal	4508
John Deere	430, 510, 530	441	25gal	4484
	(435, 455, 465, 535, 545, 565); (446, 456, 466, 546, 566) (447, 457, 467, 547, 557, 567)	442	25gal	4483
		448	55gal	4504
	(448, 458, 468, 558, 568); (449, 459, 459E, 469, 559, 569) (440, 450, 460, 550, 560); (451E, 451M, 461M, 551M, 561M)	441	25gal	4516
		448	55gal	4517
	(440, 450, 460, 550, 560) w/HC2; 451R, 461R, 561R	441	25gal	4546
		448	55gal	4547
	(960, 990); C451R, C461R, V451R, V461R	448	55gal	4538
	(582 Silage Special); 854	448		4503
Krone	(Round Pack Fixed Chamber 1250, 1250 Multi-Cut, 1550, 1550 Multi-Cut); (KR 125, F130); (Vario Pack, Fortima, Comprima, Bellima Series)	441	25gal	4484
Kubota	BV4160, BV4180, BV4580, BV5160	441	25gal	4481
Kuhn	VB 5600	436K	20gal	436K
	VB 2100 Series	436		436
	VB 3100 Series	438K		438K
	VB 7100 Series	439K		439K
McHale	V660, F540, F550, F560, Fusion Balers	448	25gal	4526
Massey Ferguson	1734, 1745, 1746, 1756	441	25gal	4484
	2745, 2746, 2746A, 2756A, 2766	448	55gal	4508
	2846, 2846A, 2856, 2856A, 2946, 2946A, 2956, 2956A	448		4524
	RB4100V	431	20gal	4523
	1 Series -145, 156	448	55gal	4531

(Chart Continues on Next Page)

Baler Make	Baler Model	Base Kit	Tank Size	Install Kit
New Holland	544, 548, 564, 630, 634, 638	441	25gal	4484
	640, 644, 648, 650, 658, 660, 664, 668, 678, 688	441		4486
	BR 7060, 7070	442	25gal	442-SO
	(BR 7080, 7090); (BR 770, 770A, 780, 780A)	442	55gal	442-SO
	BR 730, 730A, 7050	441	25gal	4484
	BR 740, 740A, 750, 750A	442	25gal	442-SO
	Roll Belt 450, 460, 550, 560, 565	442C	55gal	442C
	BR 450 Utility Baler	442U	25gal	442U
	Pro Belt 450, 460	442P	55gal	442P
	Roll Belt 450 Utility Plus	442UP	25gal	442UP
	RF 440, 450 Fixed Chamber	441	25gal	4482
New Idea	(4800 Series Fixed); (6343, 6344, 6345, 6364, 6365); (6454, 6464, 6465)	441	25gal	4484
		448	55gal	4508
Vermeer	(404, 504) Series 1 Pro	448	55gal	4523
	(504, 604) Series 2 Pro	431	25gal	431
	(504 Gen 3 & 4); (604 Series 3 & 4 Pro)	448	55gal	4543
	504, 505 (J, K, M, N, Series), Rebel Series, XL Series	441	25gal	4484
	504R Premium, Classic & Signature	448	55gal	4555
	604M, 605M, 604N, 605N	448		4505
	604R Premium, Classic & Signature	448		4549
	ZR5 Self-Propelled Baler	445Z		445Z
Vicon	RF Fixed Chamber 119, 2121, 2125, 2235, RV 1601, 1901, 2160, 2190	441	25gal	4484
Welger	RP Fixed Chamber 202, 220, 235, 245, 415, 420, 445, 520, 535	441	25gal	4484

Tools Needed

Standard wrench set

Standard screw driver or 5/16" nut driver

Side cutter & Hose

Crescent wrench

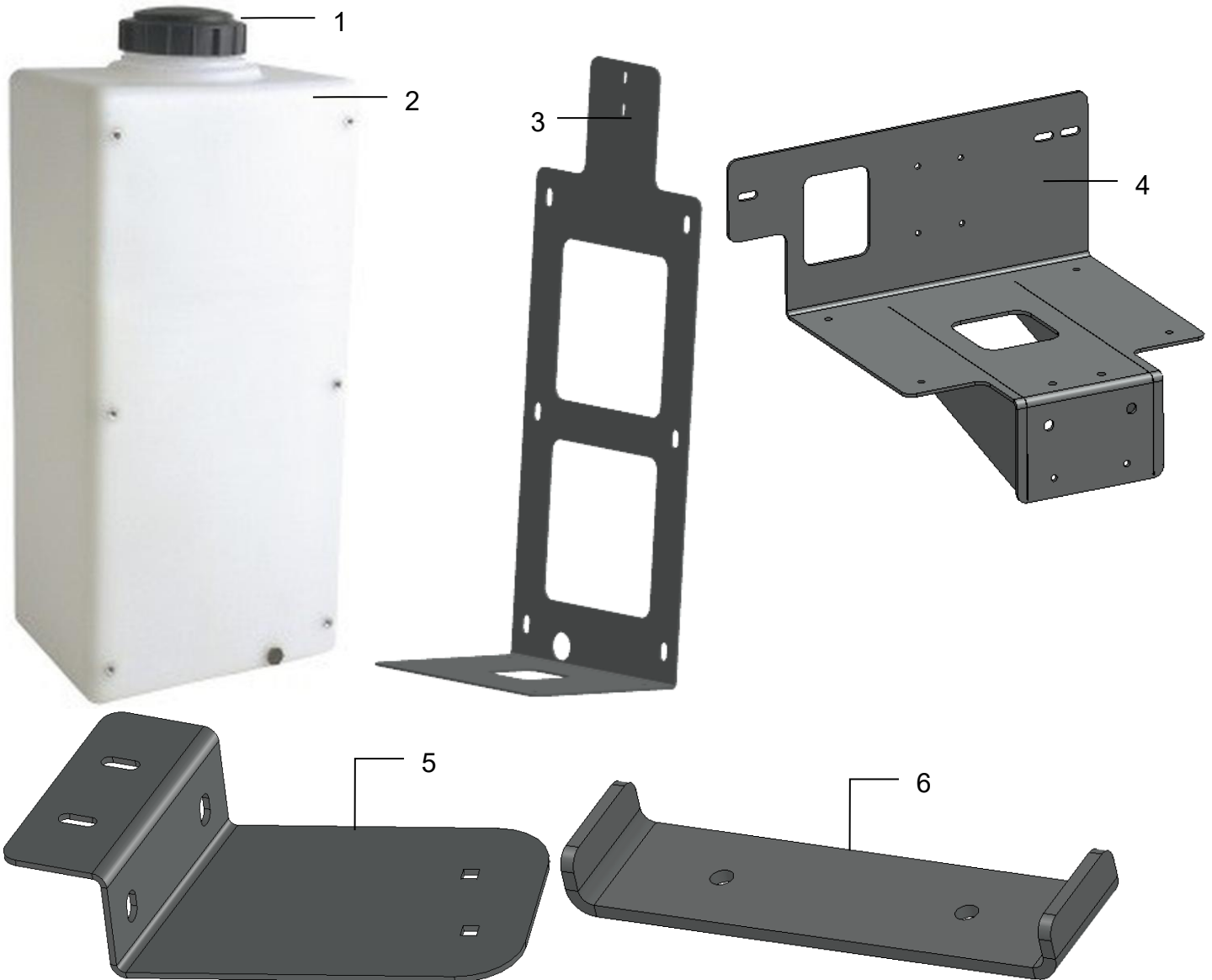
SAE sock set

Drill bit set

Hammer

Center punch

Model 431 Base Kits
20gal.Tank Saddle Kit (030-0431-TK)



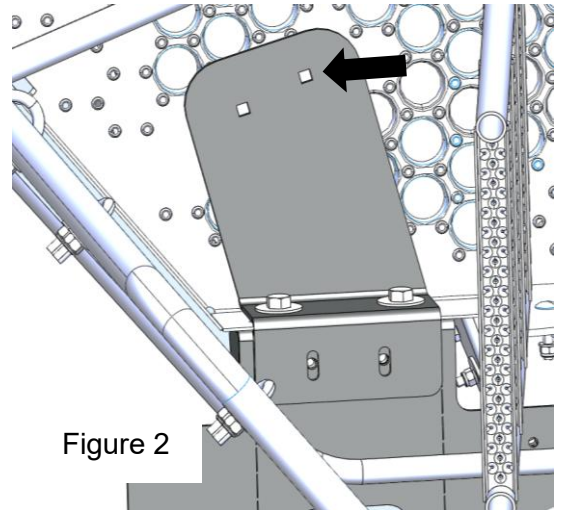
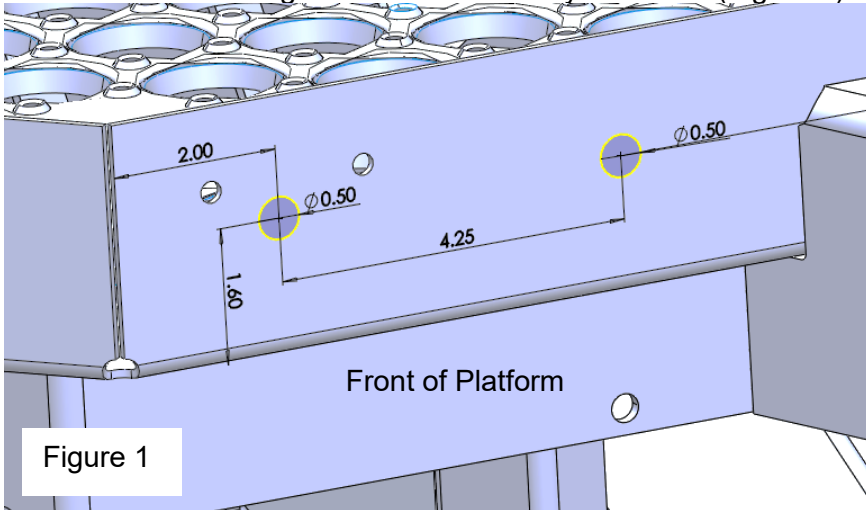
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tank Cap	005-9022C	1	8	Inside Reach Rod	001-4405	2
2	20 Gallon Tank	005-4705T	1	NP	3/4" Tank Fitting	005-9100	2
3	20 Gal Tank Bracket	001-4705A	1	NP	3/4" Street Fitting	003-SE34	1
4	20 Gal Tank Frame	001-4705B	1	NP	3/4" x 3/4" Elbow	003-EL3434	1
5	20 Gal Platform Bracket	001-4705C	1	NP	Cap Gasket (included)	005-9022CG	1
6	20 Gal Platform Standoff	001-4705D	1	NP	U-Bolt - Small	001-4714UBS	1
7	Outside Reach Rod	001-4404	2				

Complete Tank Saddle Kit 030-0431-TK



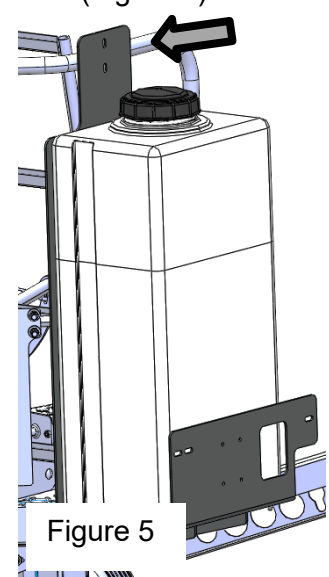
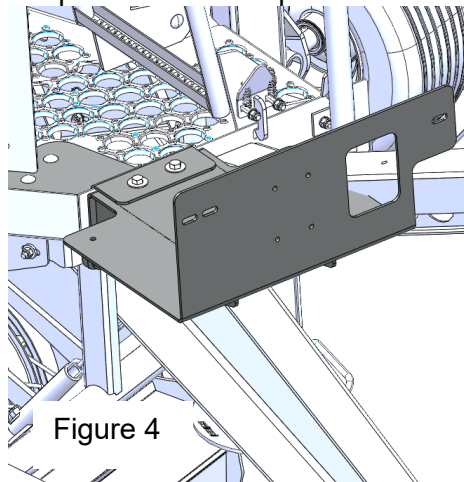
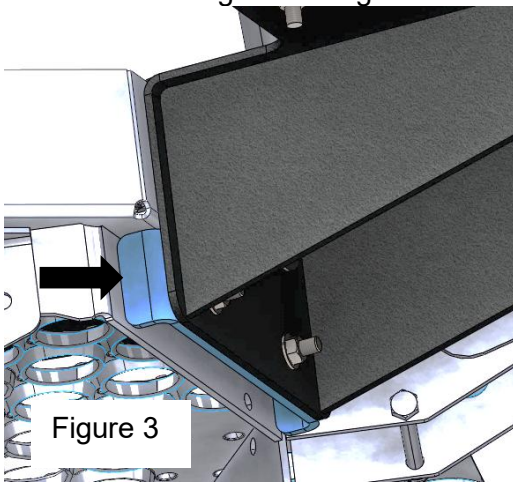
Installation - Tank Saddle Kit (030-0431-TK) for Install Kits 4531X & 4531

Tank and Tank Mounting Brackets- On the front platform of the baler, mark the holes as indicated (Fig 1). Locate platform bracket (001- 4705C) and position on the top of the platform as shown (Figure 2). Using the bracket as a template to mark the location, drill two 5/16" (8mm) holes in the front of the platform and the top of the platform using the dimensions shown. Using the carriage bolts and washers in parts bag 19 loosely secure the two back mounting holes as indicated by the arrow (Figure 2).



Locate the tank mounting frame (001-4705B) and the support plate (001-4705D) and position as shown in figure 3. The arrow indicates the position of the support plate secure with 1/2" bolts. *Note: The tank mounting frame bracket will be secured to the tank bracket (001-4705A) and the tank (005-4705T) for shipping. Tank may need to be removed to install bolts to mount pump assembly.

Use 3/8" bolts to secure the mounting frame to the platform bracket on the top, as well as bottom of the frame. Be sure the bolt goes through the front of the platform and the platform bracket shown (Figure 4).



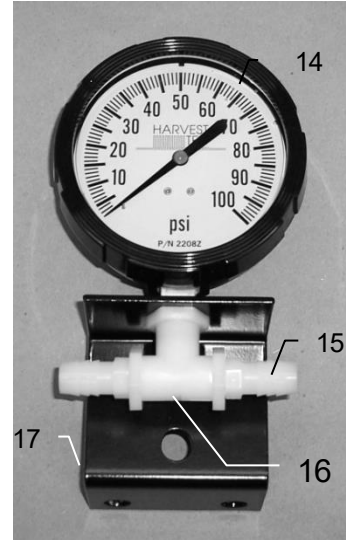
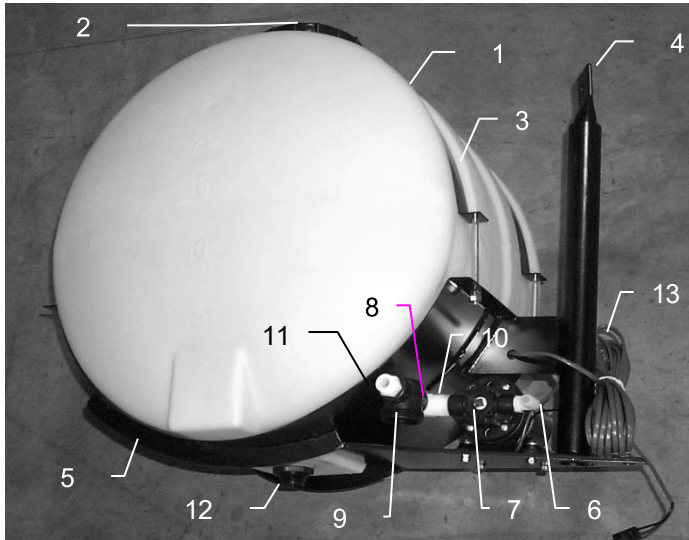
Secure the tank frame bracket (001-4705A) to the platform safety rail with the supplied U-Bolt (001-4714UBS) indicated by the arrow in figure 5.

Reach Rods- For added tank stability, attach and secure telescoping reach rods. Reach rod placement is at the discretion of the installer to determine the most suitable baler attachment points. Bolt one end of each reach rod to the upper tank support bracket and the other ends to secure locations on the baler. Reach rods tabs may have to be bent to align properly. Once final rod lengths are determined, remove the set screw bolts and mark inner reach rods through the set screw bolt hole. Unbolt and remove inner reach rods - using a 3/8" bit drill approximately 1/4" deep into the inner reach rods at your mark to create a stop for the set screw bolt to embed into. Reassemble the telescoping reach rods and tighten set screw bolt. Secure all reach rod hardware with nuts, washers and lock washers included with hardware.

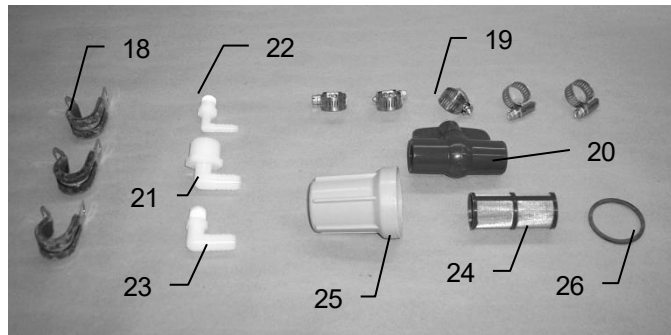
Model 441 Base Kit 25 gal. Tank Saddle Kit (030-0441-TK)

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

Install Kit 4481X or 4481

Installation of Tank Saddle Kit (030-0441-TK)

Using the one pre-drilled holes next to the baler jack on top of the baler tongue, mount one side support leg (001-4704MAK). Drill second hole to align with support leg hole. Both holes will need to be drilled out to have a 9/16" diameter. Secure with 1/2" x 1 1/2" bolts, pre-drilled holes will need to be drilled out to have a 9/16" (14mm) diameter. Repeat process on opposite side of baler tongue as shown in figure 1. After side supports are secured, mount top tank support (001-4704MK) as show in figure 2 using three 1/2" x 1 1/2" bolts per side. Mount tank saddle (001-4401) using three 1/2" x 1 1/2" bolts onto top support as show in figure 3.

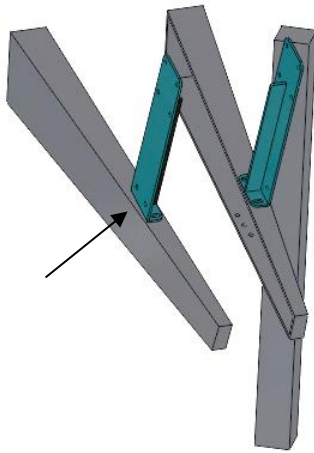


Figure 1

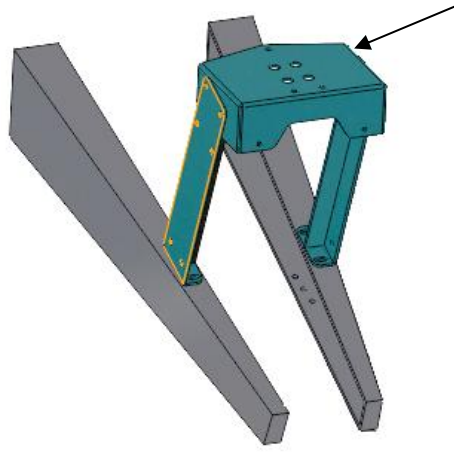


Figure 2

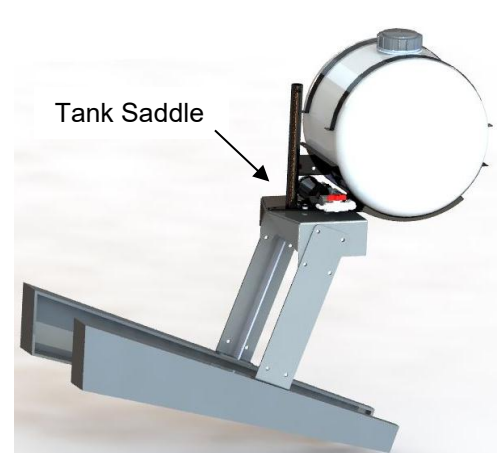


Figure 3

Install Kit 4482X or 4482

Installation of Tank Saddle Kit (030-0441-TK)

Locate the tank mounting legs (001-4704MAK) the top support bracket (001-4704MRF) the front mount plate (001-4703VZ) and assemble (Figure 4) using the supplied hardware. Point the assembled bracket with the 001-4703VZ toward the baler. Move the tank legs toward the baler until the width of the tongue matches the width of the legs (shown in Figure 5). Ensure the assembly is positioned upright, drill the holes and secure. Attach the tank saddle to the assembly (Figure 6). Secure the tank to the tank saddle by using the two supplied tank straps and hardware.

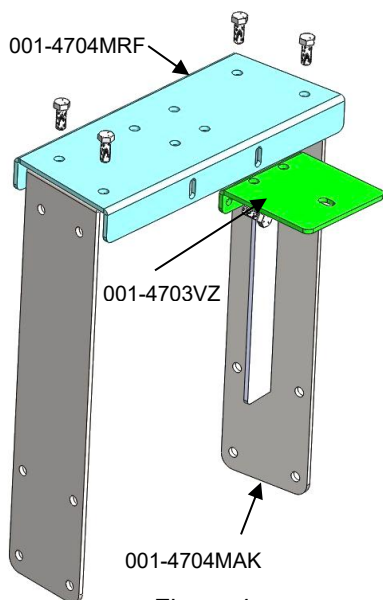


Figure 4
*Reversed View

Figure 5

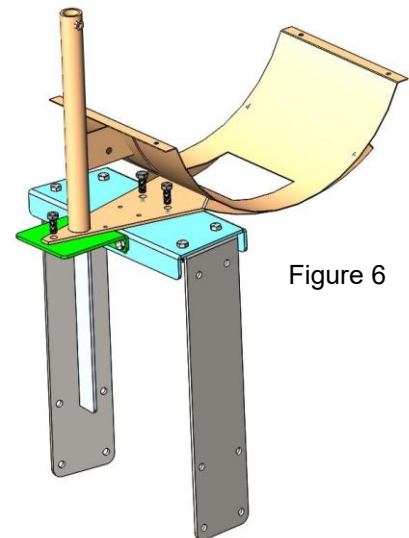
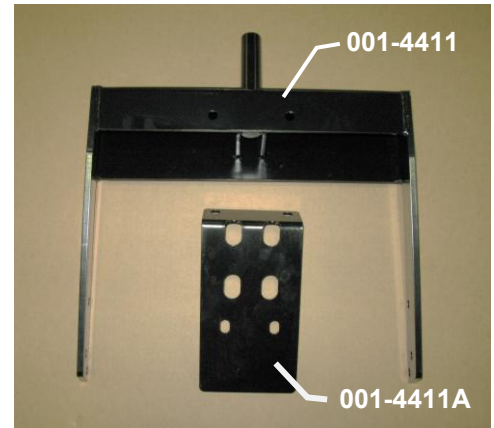
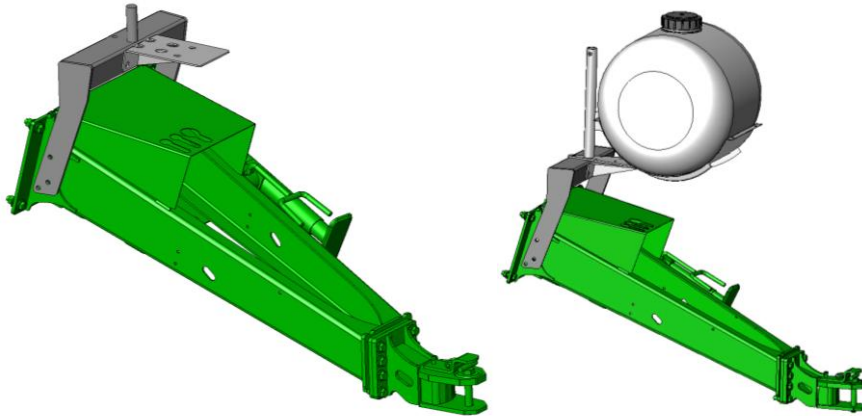


Figure 6

Install Kits 4483X, 4516X, 4546X or 4483, 4516, 4546

Installation of Tank Saddle Kit (030-0441-TK)

The Mounting Bracket (001-4411) will straddle the baler's tongue, resting up against the tongue's intersection with the baler's cross frame (for 8 Series and older). Bracket is bolted to the baler using three bolts on each side, holding the tongue to the cross frame. Replace each of these bolts with the longer bolts provided (for 9, 0 and 1 Series only two bolts per side are used). Tank mounting bracket may flex when tightening down bolts because some hitches are welded at different angles. Install the tank on top of the stub pipe and secure tank saddle using supplied 1/2" x 1-1/2" hardware. Bracket Support (001-4411A) attaches to the bottom of tank saddle and to the front of the mounting bracket. Tighten down and secure all hardware.

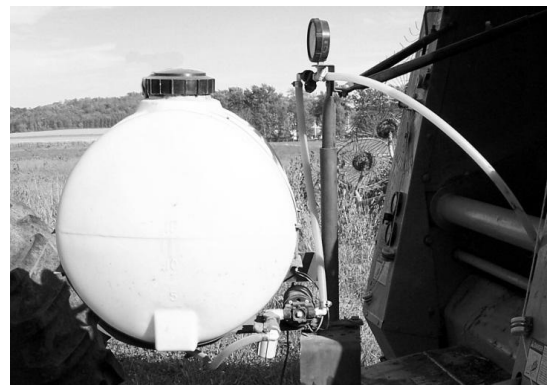


Install Kit 4484X or 4484

Installation of Tank Saddle Kit (030-0441-TK)

Requires Tank Mount Kit (TMK-4484)

Locate and place the Base Mounting Bracket (001-4418) on the baler's tongue or cross frame. Care must be taken to make sure the applicator will be clear of the baler's moving parts and the rear wheels of the tractor. Line up the bracket with any existing holes, drill new if necessary. The bracket will be secured with



four 1/2" bolts. Mount the tank on top of the stub pipe. Secure with the 1/2" x 1-1/2" bolt and hardware. Attach the reach rods from the top of the stub pipe to the baler forming a 'V' or triangle shape.

Reach Rods Installation – Reach Rod placement is at the discretion of the installer to determine the most suitable baler attachment points. Bolt one end of each reach rod to the upper stub pipe and the other ends to secure locations on the baler.

Reach rods tabs may have to be bent to align properly. Once final rod lengths are determined, remove the set screw bolts and mark inner reach rods through the set screw bolt hole. Unbolt and remove inner reach rods - using a 3/8" bit drill approximately 1/4" deep into the inner reach rods at your mark to create a stop for the set screw bolt to embed into. Reassemble the telescoping reach rods and tighten set screw bolt. Secure all reach rod hardware with nuts, washers and lock washers included with hardware.

Install Kit 4486X or 4486

Installation of Tank Saddle Kit (030-0441-TK)

Requires Tank Mount Kit (TMK-4484)

Locate and place the Mounting Bracket (001-4420) on the front of the baler's tongue where it joins the hitch acceptor. Use the bolts 5/8" included to join the two parts of the baler. Orient the bracket so the two holes on top of the bracket will face away from the baler to allow the applicator to face rearward. Install the tank on top of the mounting bracket using two 1/2" x 1-1/2" bolts and hardware.

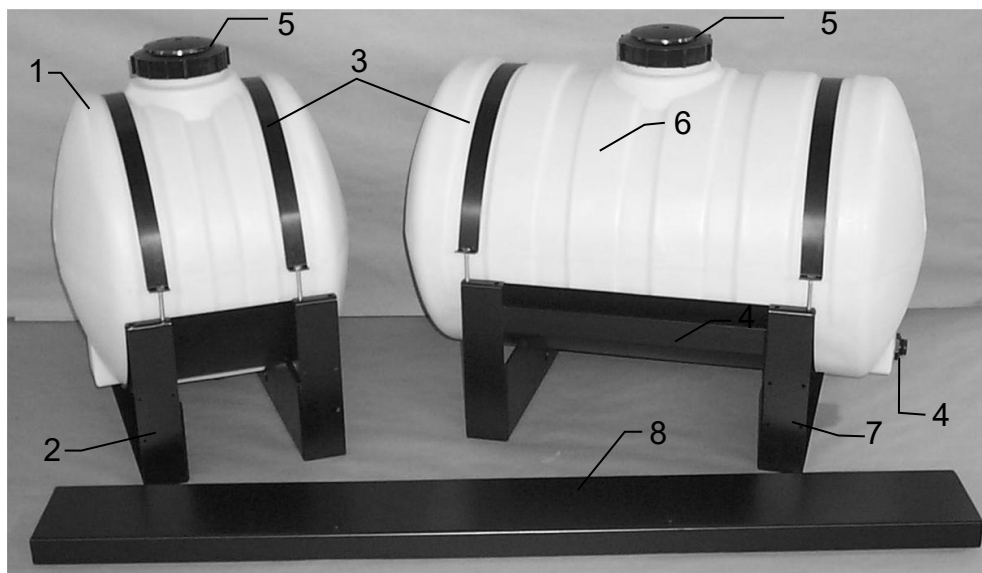


Tank will face towards the baler when installation is complete. Attach the reach rods from the top of the stub pipe to the baler forming a 'V' or triangle shape.

Reach Rods Installation - Reach Rod placement is at the discretion of the installer to determine the most suitable baler attachment points. Bolt one end of each reach rod to the upper stub pipe and the other ends to secure locations on the baler.

Reach rods tabs may have to be bent to align properly. Once final rod lengths are determined, remove the set screw bolts and mark inner reach rods through the set screw bolt hole. Unbolt and remove inner reach rods - using a 3/8" bit drill approximately 1/4" deep into the inner reach rods at your mark to create a stop for the set screw bolt to embed into. Reassemble the telescoping reach rods and tighten set screw bolt. Secure all reach rod hardware with nuts, washers and lock washers included with hardware.

Model 442 Base Kits



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	25 Gallon Tank	005-9022	1
2	25 Galon Tank Saddle	005-4442	1
3	Tank Strap	001-4402	2
4	Tank Fitting	005-9100	1
5	Tank Lid	005-9022C	1
NP	Tank Lid Gasket	005-9022CG	
NP	Tank Breather	005-9022B5	

<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
6	55 Gallon Tank	005-9203	1
7	55 Gal. Tank Saddle	001-4445A	1
8	Cross Support Bracket	001-4445B	1

4' CNH Twine Only Balers – additional parts

9	BR Spacer	001-4442S	4
10	4' Wide Shelf	001-4442B	1
Tank Mount Kit (55 gal only (#8))		TMK-44255	

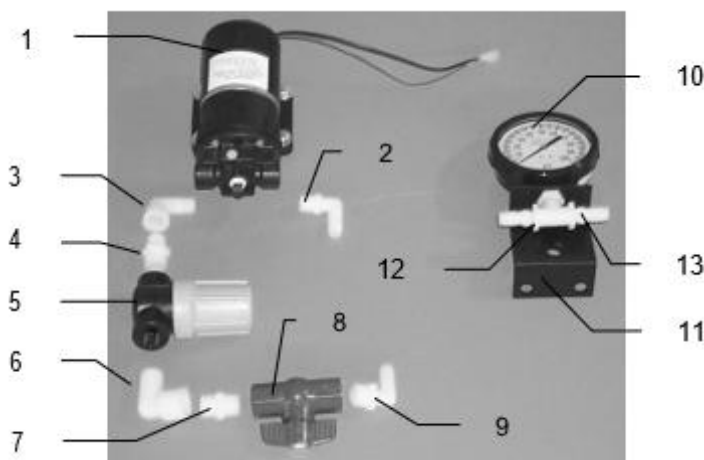


25 Gal Tank Saddle Kit 030-044225-TK
(Ref. 1-5)

55 Gal Tank Saddle Kit 030-044255-TK
(Ref. 3-7)

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



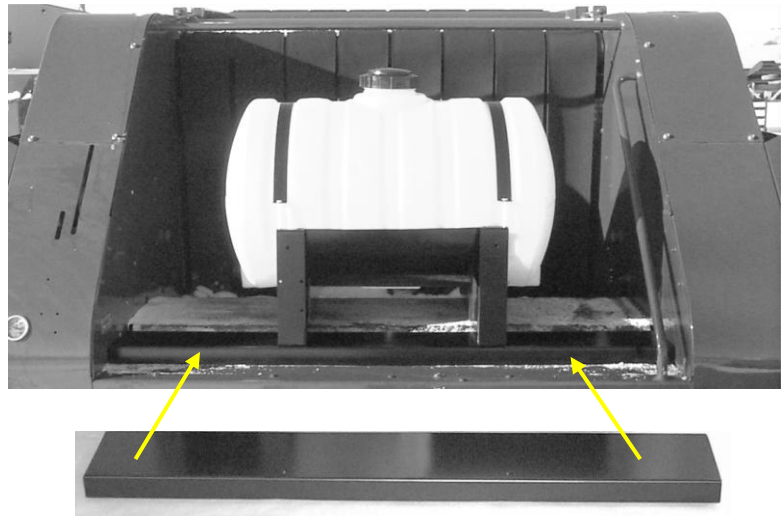
Applicator Kits 74755, 74725 or 44255, 44225

Installation of Tank Saddle Kit (030-044255-TK) or (030-044225-TK)

Requires Tank Mount Kit (TMK-44255)

Installation of the cross support for 55 gallon model only

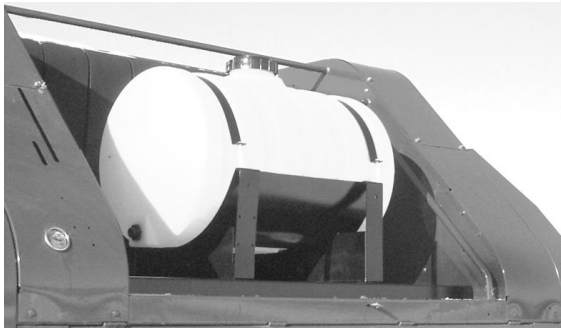
Locate parts bag 14. Attach Cross Support Bracket (001-4445B) on the front shelf of the baler. It will butt up against step-up on the shelf and line up flush with its upper surface. Mark and drill a 9/16" (14mm) hole on each side sheet to hold cross piece in place with two 1/2" by 1-1/4" bolts, fender, and lock washers.



Tank and Saddle Mounting – 25 and 55 gal sized tanks

See additional information for 4' Wide Twine- Only Balers

Locate parts bag 11. Place the tank and frame on the shelf of the baler and center it from side to side. On 55-gallon (210L) models (030-044255-TK), the tank positioning going from front to back is set by lining up the front base holes with the holes in the cross support. On 25-gallon (100L) models (030-044225-TK), line up the front tank legs with the front of the baler's shelf. Mark and drill all base holes with a 9/16" (14mm) drill. Use the 1/2" by 1-1/4" bolts, lock washers, fender washers, and nuts provided to secure the frame.



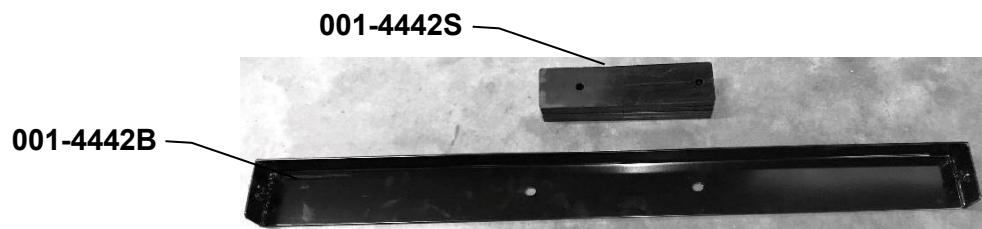
55 Gallon System



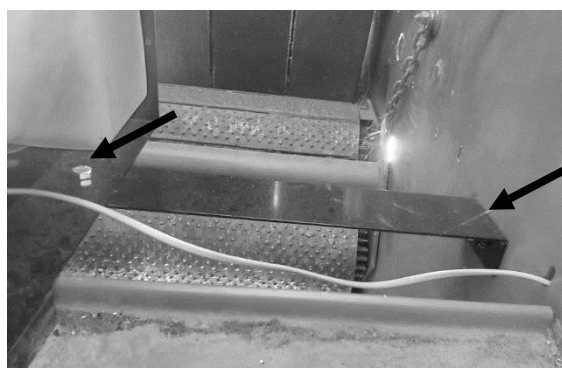
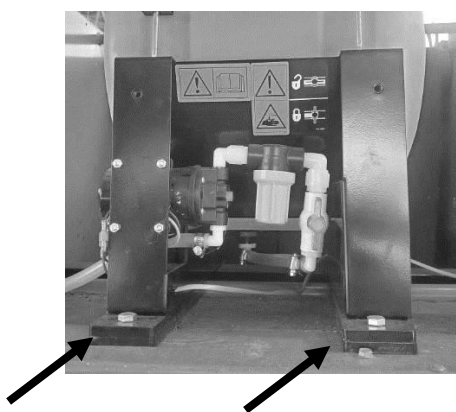
25 Gallon System

4' Wide CNH Twine Only Baler

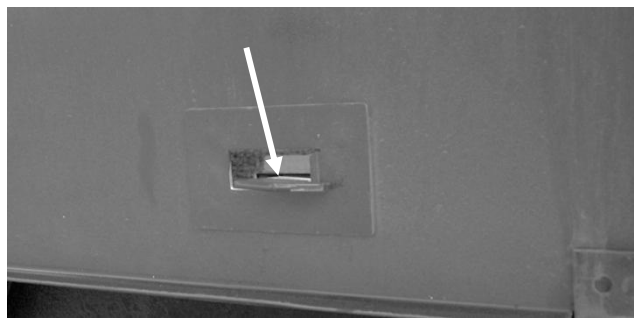
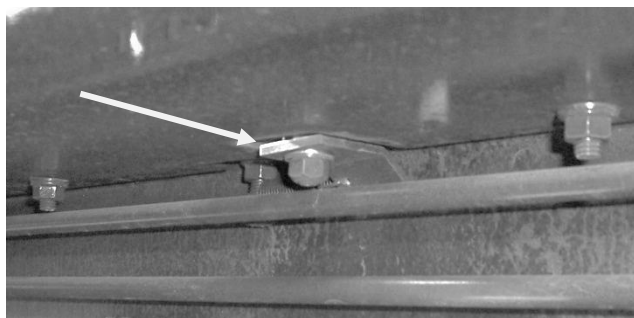
When using a 4' wide CNH twine baler the tank saddle could potentially be wider than the front shelf of the baler. If needed there is a tank mounting extension bracket (001-4442B) and tank saddle four spacers (001-4442S). Contact your local equipment dealer to order.



Position the tank bracket spacers under the tank saddle and mark the holes as shown (below left). The tank saddle support bracket will be located 2" in from the back of the tank saddle overhanging the rollers and secured on both sides of the baler using 9/16" bolts (below right).



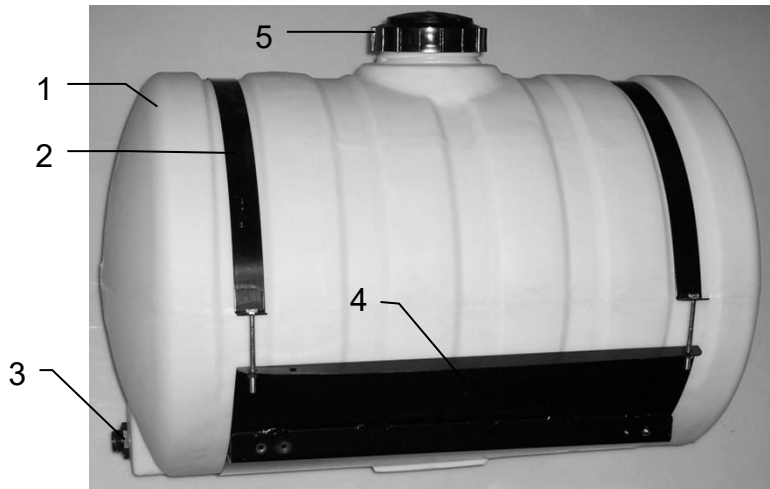
Latch Extension (001-442LE) For 747 and 442 Models Only



Remove the nut and spring on the existing latch. Replace with the extended latch. Retighten nut and attach the spring. The latch may need to be bent to fit through the doors opening.

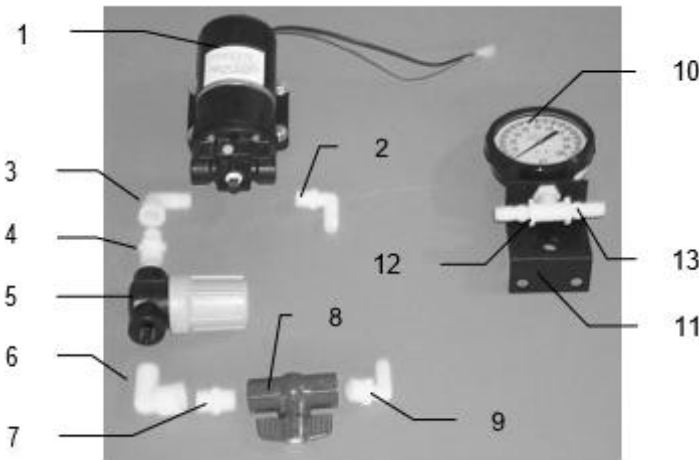
Model 448 Base Kits

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.

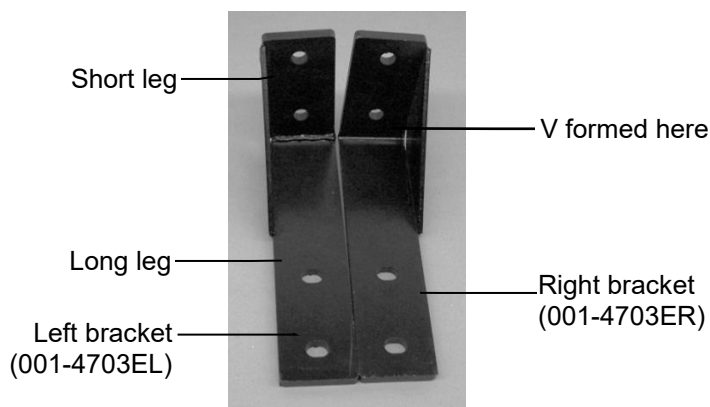
Install Kit 4503X or 4503

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

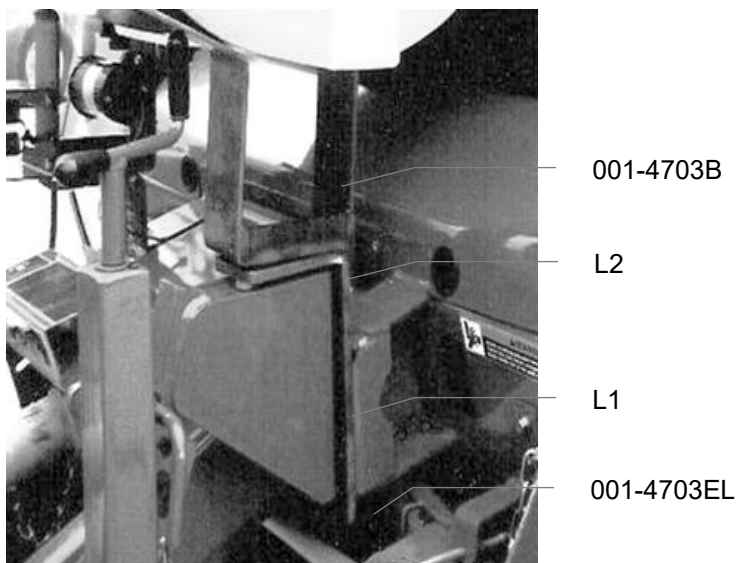
Requires use of Tank Mount Kit (TMK-4503)

For John Deere 582 Round Balers:

The mounting brackets are L-shaped. There is a right and left bracket enclosed in the applicator. This can be determined by setting the right and left bracket next to each other with the longer legs lying flat toward you and the shorter legs pointing up. The short leg of the bracket will either touch each other or angle away from each other. Place the brackets so they angle away from each other and form a **V** (see below). The bracket on the left is the left bracket and the bracket to the right is the right bracket.

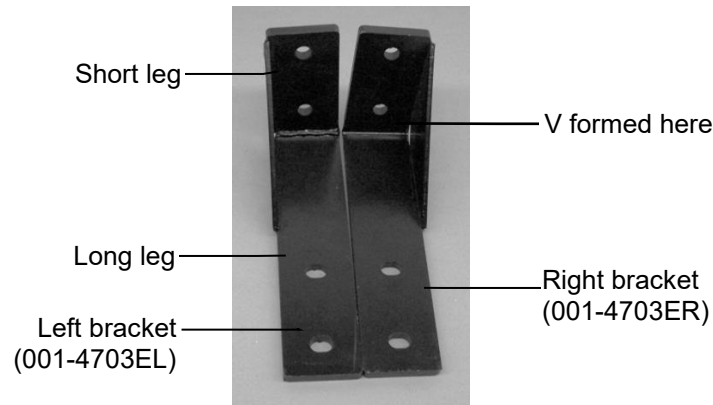


Before installing the brackets, the baler tongue must be supported by some means other than the jack (hooked to a tractor). Looking at the baler from the front, the right bracket bolts to the left side of the hitch using two 1/2" x 2" bolts, washers, lock washers, and nuts (labeled **L1** below). Short leg of brackets will point toward the front of the hitch. Next remove the two bolts holding the jack assembly to a baler (labeled **L2** below). Insert the right L-bracket between the jack assembly and baler. Bolt together with two M16 x 70mm bolts. Attach the tank legs (001-4703B) to the tank saddle with 3/8" x 1" bolts, locks, and flat washers. Attach the saddle legs to the mounting bracket with 1/2" x 1-1/2" bolts, locks, nuts and flat washers.



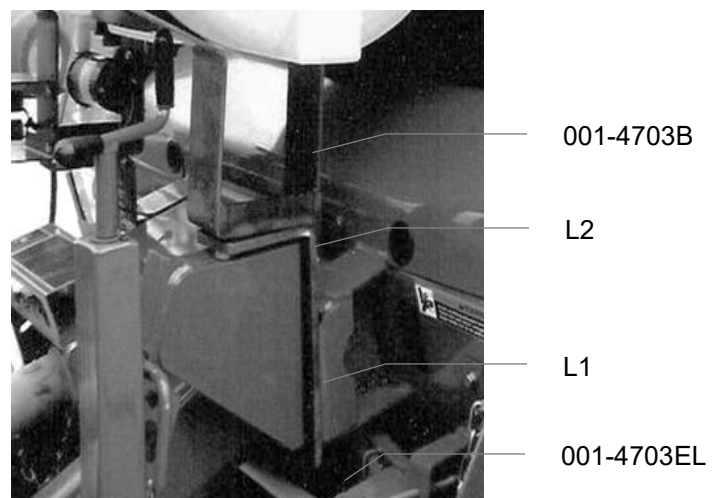
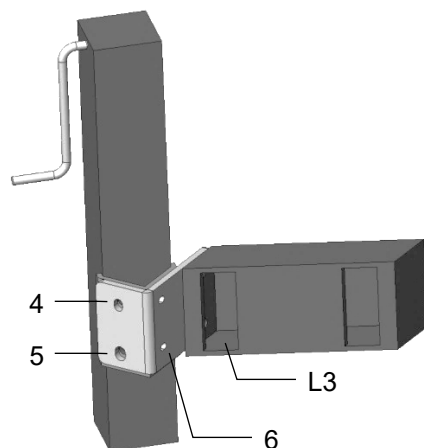
For John Deere 854 Balers:

The mounting brackets are L-shaped. There is a right and left bracket enclosed in the applicator. This can be determined by setting the right and left bracket next to each other with the longer legs lying flat toward you and the shorter legs pointing up. The short leg of the bracket will either touch each other or angle away from each other. Place the brackets so they angle away from each other and form a **V** (see below). The bracket on the left is the left bracket and the bracket to the right is the right bracket.



Before installing the brackets, the baler tongue must be supported by some means other than the jack (ex. hooked to a tractor). Looking at the baler from the front, the right bracket bolts to the left side of the hitch using two M16 x 55mm bolts, washers, lock washers, and nuts (labeled **L1** below). Short leg of brackets will point toward the front of the hitch. Next remove the two bolts holding the jack assembly to a baler (**L2** below).

Remove the jack from the mounting bracket and install jack extension (001-4703EXT) as shown below (3). Use the supplied hardware to mount the jack to the extension (*hole 4* M16x2mm) (*hole 5* M20x2.5mm) (*hole 6* M12 x 1.75mm), and use the factory jack hardware and mounting plates to mount the extension to the baler. Insert the right L-bracket between the jack assembly and baler. Bolt together with two M16 x 70mm bolts. Attach the tank legs (001-4703B) to the tank saddle with 3/8" x 1" bolts, locks, and flat washers. Attach the leg with 1/2" x 1-1/2" bolts, locks, nuts and flat washers.



Install Kits 4504X, 4517X, 4547X or 4504, 4517, 4547

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

Requires Tank Mounting Kit (TMK-4504)

Attach L-Shaped Mounting Brackets (001-4703DL and 001-4703DR) to the baler using supplied M12 x 45 mm bolts (Figure 1). Attach Tank Legs (001-4703B) to the tank saddle using supplied 3/8" x 1" bolts, lock and flat washers. Three bolts will be used per side on 8 Series balers and two bolts per side with the 9 Series balers.

With both legs attached to tank saddle, place the tank assembly on top of the mounting brackets that were just installed on baler (Figure 2). Attach tank legs to mounting brackets using supplied 1/2" x 1-1/2" bolts, nuts, flat, and lock washers. Install both sides of legs before tightening down any of the bolts.

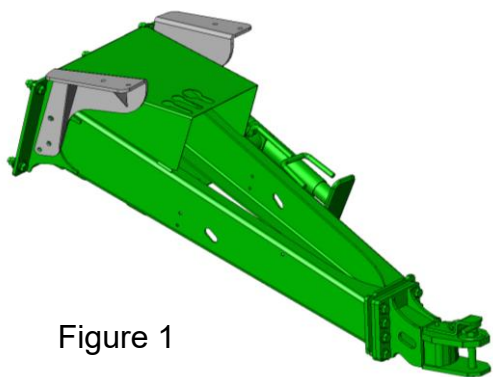


Figure 1

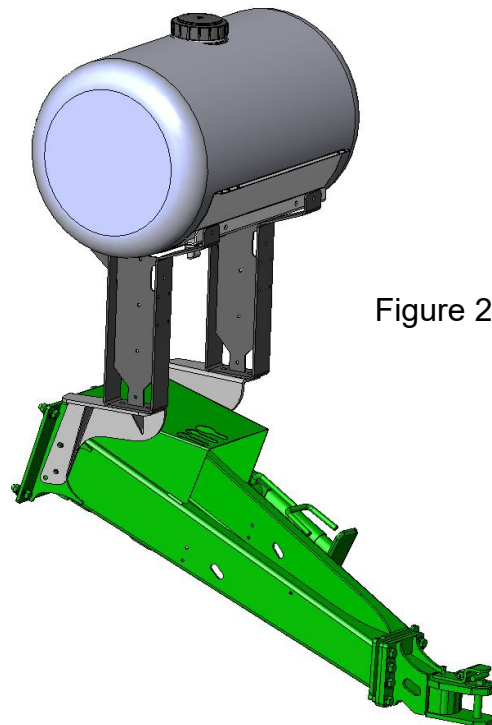
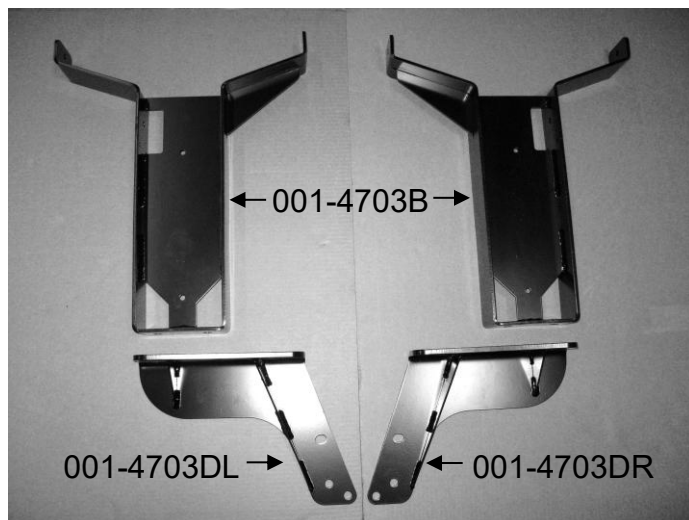


Figure 2



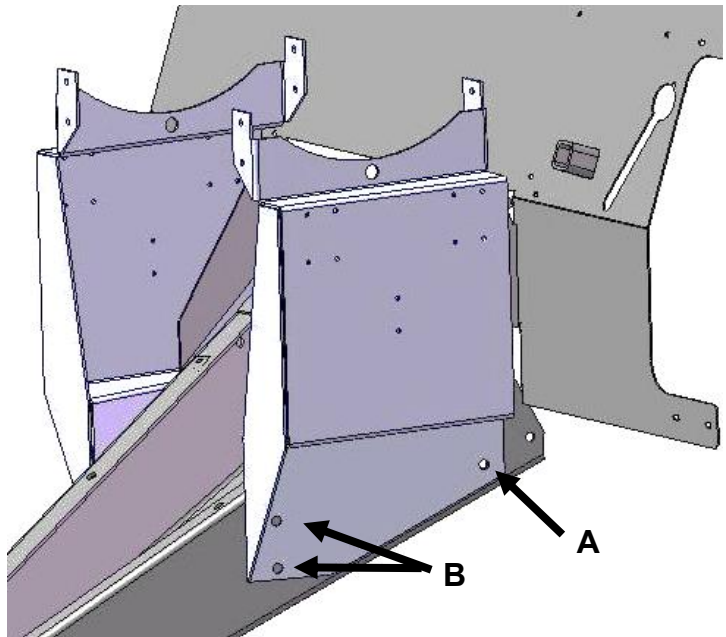
Install Kit 4505X or 4505

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

Requires use of Tank Mount Kit (TMK-4505)

Locate Left Tank Leg (001-4703FL) and Right Tank Leg (001-4703FR) and attach to tongue of baler using the one existing hole per side as shown **(A)**. If the holes are not pre-dilled, hole **(A)** will need to be located 8" (20cm) down from the top of the hitch rail and 4.75" (12cm) from the end of the hitch rail. Loosely attach the legs at **(A)** using two 1/2" x 1-1/4" bolt, nuts, locks and flat washers. Mark the two holes that will need to be drilled **(B)** using a 9/16" (14mm) bit. Attach legs loosely using additional four 1/2" x 1-1/4" bolt, nuts, locks and flat washers.

Place the tank saddle assembly on top of legs and secure with provided hardware. Tighten all hardware after the tank has been installed.

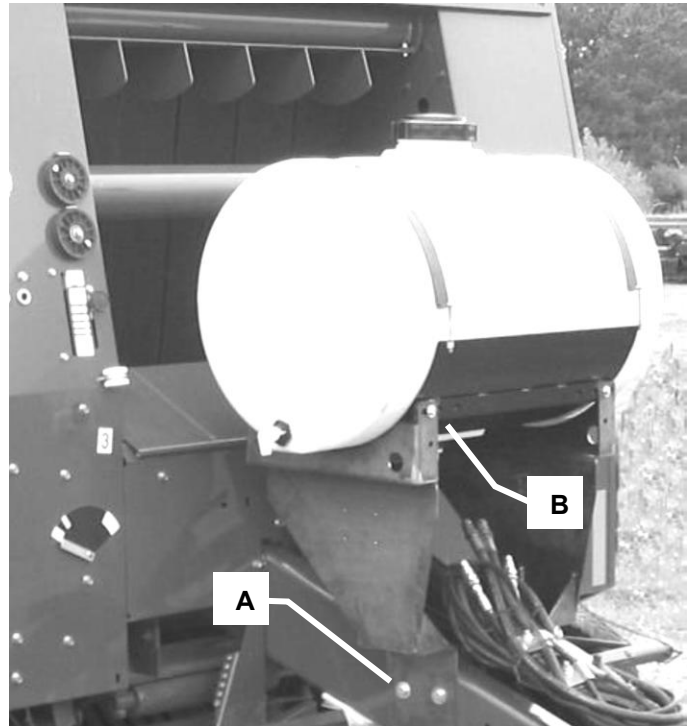


Install Kit 4508X or 4508

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

Requires use of Tank Mount Kit (TMK-4508)

Locate Tank Leg Brackets (001-4703K and 001-4703L). Use the diagram below to locate the placement of the holes to be drilled. Three 1/2" (13mm) holes per side of tongue will need to be drilled. After drilling holes, loosely attach the legs to tongue using supplied 1/2" X 2" bolts with locks, nuts, and flat washers **(A)**. Loosely attach the Tank Saddle (001-4703) and tank assembly on top of the legs using supplied 3/8" x 1" bolts and lock washers **(B)**. Once tank saddle is attached to legs, first tighten down bolts and nuts attaching the legs to the tongue. Second, tighten down bolts attaching saddle to legs. Be sure to fully tighten all mounting hardware.

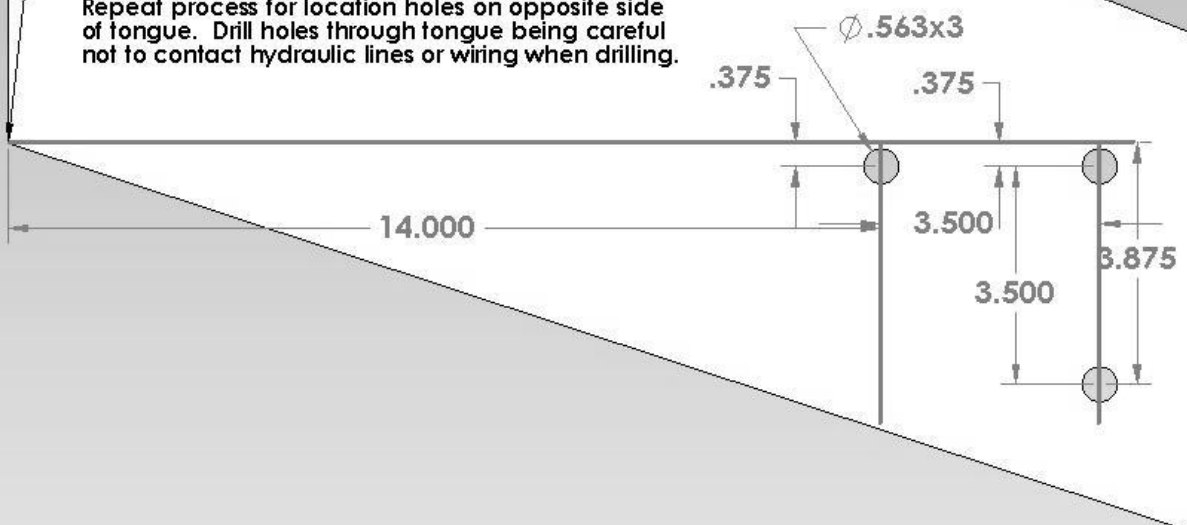


raise the tongue of the baler until the sheet metal surface on the front of the baler is vertical

locate the point where the bottom of the tongue meets the sheet metal surface and draw a horizontal line using a level on the side of the tongue as shown

Measure over 14" and make a mark along the line. Measure over 3-1/2" from the first mark and make a second mark on the line. Using the level, make a vertical line at each mark. Measure down 3/8" and 3-7/8" and mark the locations for the 9/16" holes to be drilled

Repeat process for location holes on opposite side of tongue. Drill holes through tongue being careful not to contact hydraulic lines or wiring when drilling.



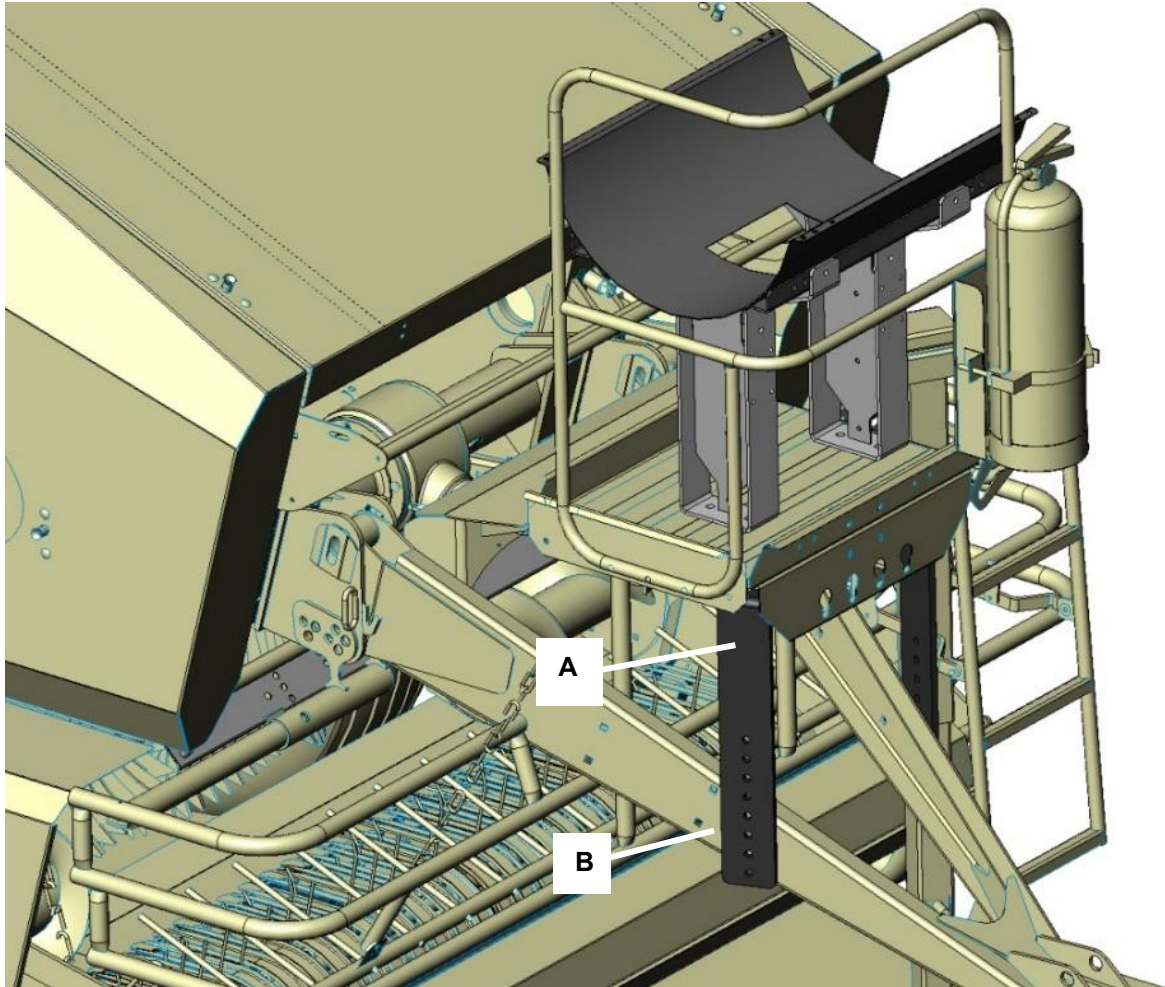
Install Kits 4523X or 4523

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

Requires Tank Mounting Kit (TMK-4523)

The tank saddle assembly will on the baler similar as shown in the picture below.

Attach both Tank Legs (001-4703B) to tank saddle using supplied hardware. Place the tank assembly as far forward as possible on the baler service platform and mark and drill the four 1/2" (13mm) holes for tank legs. Locate the Left Support Legs (001-4704JL) and the Right Support Leg (001-4704JL). Align the support legs below the tank legs **(A)** and attach through the baler platform using four supplied 1/2" x 1-1/2" bolts, locks, flats and nuts. Mark and drill four 9/16" (14mm) holes where the support legs **(B)** meet on the baler hitch. Attach the legs to the baler frame using four supplied 1/2" x 1-1/2" bolts, locks, flats and nuts. Tighten all hardware.

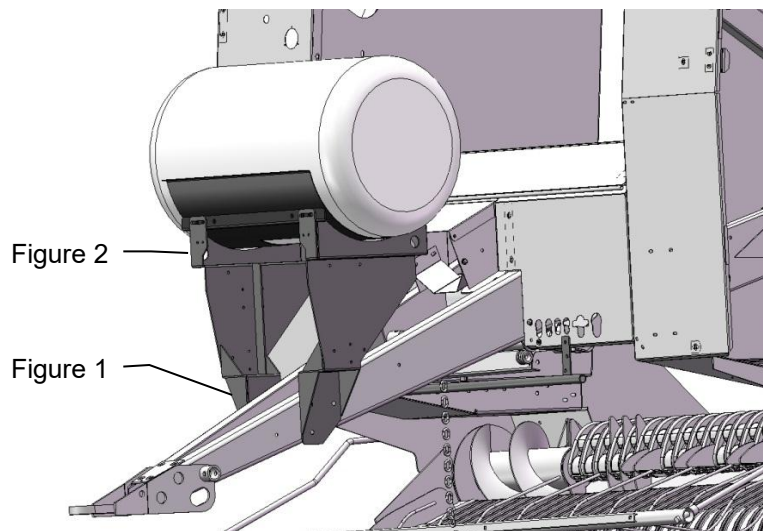


Install Kits 4524X or 4524

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

Requires Tank Mounting Kit (TMK-4508)

Locate Tank Legs (001-4703K and 001-4703L). Use the diagram below to locate the placement of the holes that need to be drilled. Three 1/2" (13mm) holes must be drilled on each side of the baler tongue. After holes are drilled, loosely attach the legs to the tongue using supplied 1/2" X 2" bolts with locks, nuts, and flat washers (Figure 1). Place tank saddle (001-4703) and tank assembly on top of the legs and loosely attach using 3/8" x 1" bolts and lock washers (Figure 2). Once saddle is attached to legs, tighten down bolts and nuts attaching the legs to the baler tongue. Tighten bolts attaching saddle to legs after baler tongue bolts have been tightened.

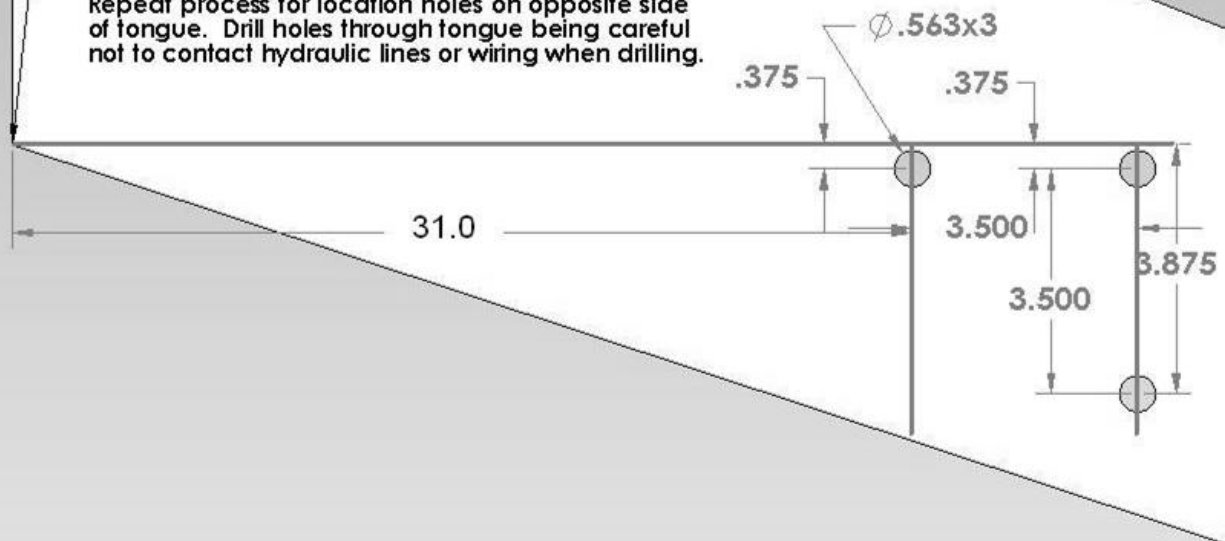


raise the tongue of the baler until the sheet metal surface on the front of the baler is vertical

locate the point where the bottom of the tongue meets the sheet metal surface and draw a horizontal line using a level on the side of the tongue as shown

Measure over 31" and make a mark along the line. Measure over 3 - 1/2" for the first mark and make a second mark on the line. using the level, make a vertical line at each mark. Measure down 3/8" and 3 - 7/8" and mark the the locations for the 9/16" holes to be drilled.

Repeat process for location holes on opposite side of tongue. Drill holes through tongue being careful not to contact hydraulic lines or wiring when drilling.



Install Kits 4526X or 4526

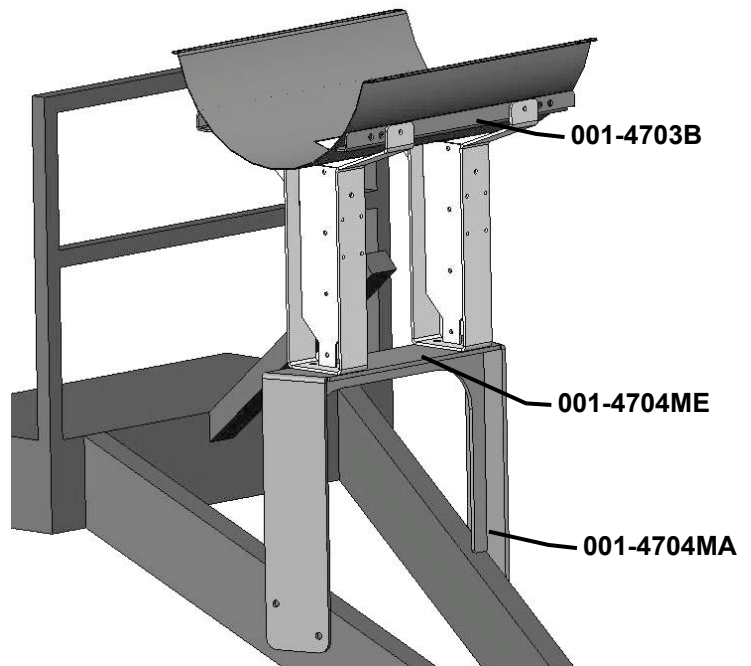
Installation of Tank Saddle Kit (030-0448-TK)

Requires Tank Mounting Kit (TMK-4526)

Locate Top Plate (001-4704ME) and Side Support Brackets (001-4704MA). Loosely attach side support brackets to outer holes on the top plate.

Place support brackets on the baler hitch and move towards the baler until the bracket contacts both sides of the baler hitch. Mark and drill four 1/2" (13mm) holes needed and attach the support bracket using four supplied 1/2" x 1-1/2" bolts, locks, flats, and nuts. Tighten hardware.

Mount the Tank Legs (001-4703B) and tank saddle to the top of the Mounting Bracket (001-4704MA). Use four 1/2" x 1-1/2" bolts, locks, flats, and nuts. Tighten hardware.

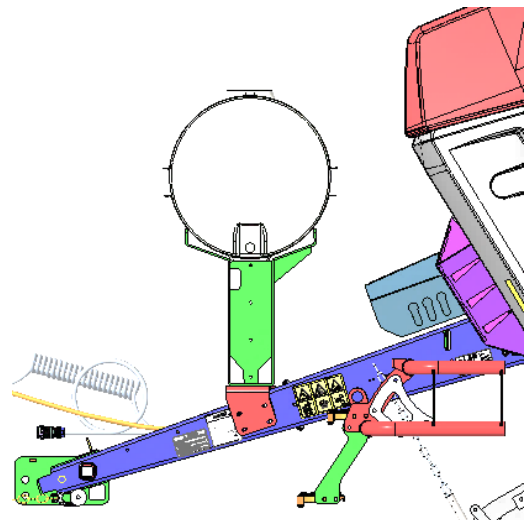
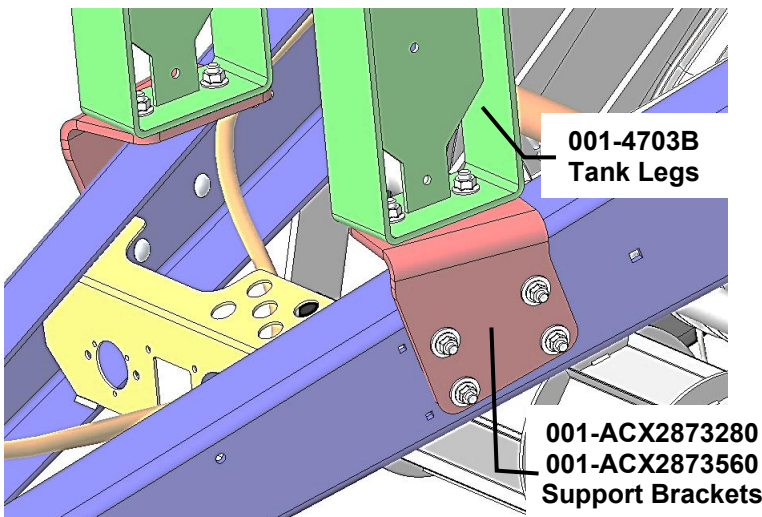


Install Kits 4531X or 4531

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

Requires Tank Mounting Kit (TMK-4531)

Attach Tank Legs (001-4703B) to Tank Leg Support Brackets (right side bracket 001-ACX2873280) and (left side bracket 001-ACX2873560) using supplied 1/2" x 2" bolts and hardware. Saddle leg brackets attach to baler hitch with 3/8" x 1 1/2" bolts and hardware using the predrilled factory holes. Place and attach the tank saddle to the top of the saddle legs using supplied 3/8" x 1 1/4" bolts and hardware. Tighten and secure all bolts prior to installing the tank into the tank saddle. Using 5/16" x 3" bolts and hardware, secure tank to tank saddle using Tank Straps (001-4402).



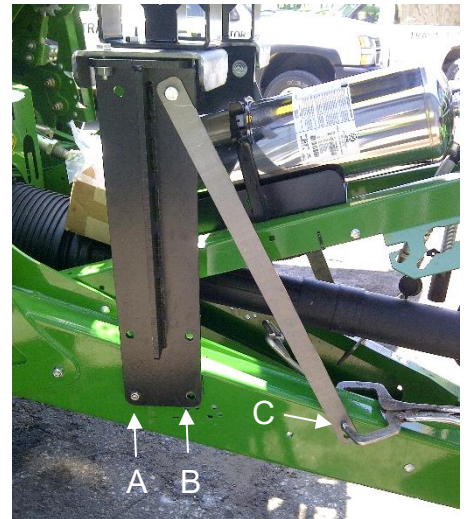
Install Kits 4538X or 4538

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

Requires Tank Mounting Kit (TMK-4538)

Illustrated Installation on next page

The tank mounting uses 1 existing bolt on each side of the tongue. Locate the net wrap cap bracket on the inside of the right side of the tongue. Remove the bracket. Drill out the front hole to 9/16" (14mm) diameter (A). Reinstall net wrap cap bracket with one existing bolt/nut in the back mounting hole. Place the rear, bottom hole on tank support, 001-4704MA, on the newly drilled hole. Use supplied hardware, 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut to secure tank support. Ensure the bracket is vertical, then mark and drill the front, bottom hole for the tank support (B). Secure with same hardware. Use tank support brace, 001-4704MDJ, to secure the tank support to a 3rd point further forward on tongue (C). Mark and drill 9/16" (14mm) diameter hole. Secure top and bottom of brace with 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut.



Locate existing hole on left side of tongue, opposite of the existing hole used on the right side of the tongue. Drill hole out to 9/16" (14mm) diameter as done on previous side. Place the rear, bottom hole of tank support, 001-4704MA, over newly drilled hole and secure with 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut. Ensure the bracket is vertical, then mark and drill front hole of support, secure with 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut. Use tank support brace, 001-4704MDJ, to secure the tank support to a 3rd point further forward on tongue (C). Mark and drill 9/16" (14mm) diameter hole. Secure top and bottom of brace with 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut.

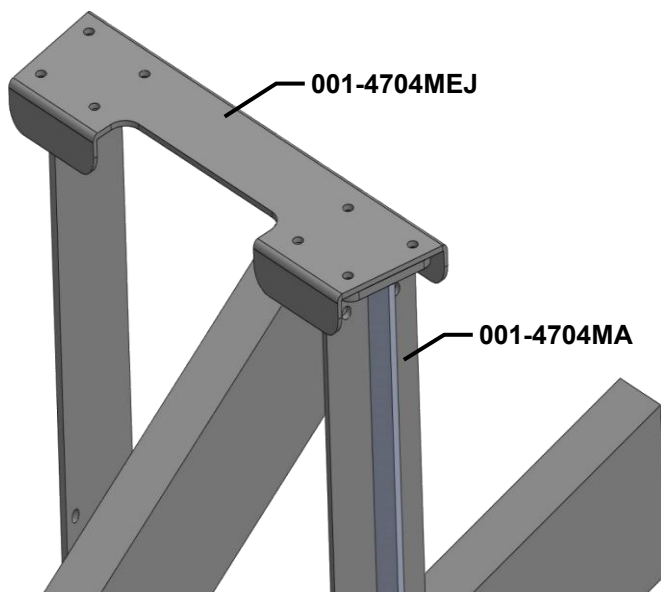


With the two tank supports, 001-4704MA, mounted to each side of tongue, install the cross member support, 001-4704MEJ, on the top of both 001-4704MA supports. The outer most holes on the cross member should line up with the tank supports. Use 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut to secure bracket. Install both tank legs, 001-4703B, to the remaining four holes on the cross member using 1/2" x 1-1/4" hex bolt, washer, lock washer, and nut. Only snug bolts at this time.

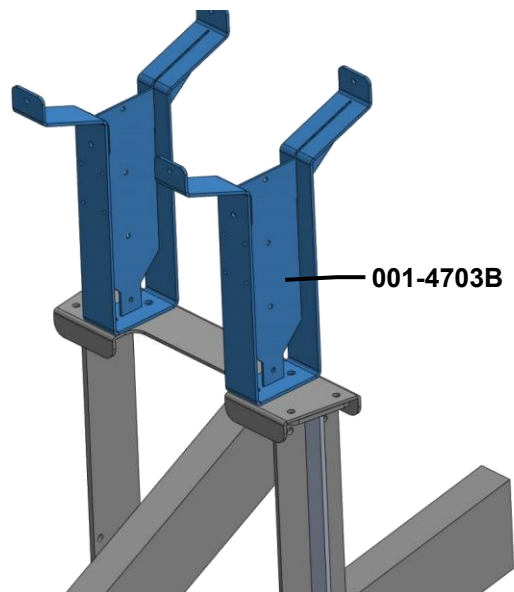
Place tank and saddle assembly on top of the leg supports. The two inner most holes on the saddle should line up with the leg supports. Start the hardware that connects the legs to the saddle, 3/8" x 1" hex bolt, lock washer, and flat washer. Once all four bolts are started, tighten the bolts that secure the leg supports, 001-4703B, to the cross member, 001-4704MEJ. With the legs tightened to cross member, then you can tighten the legs to the saddle.



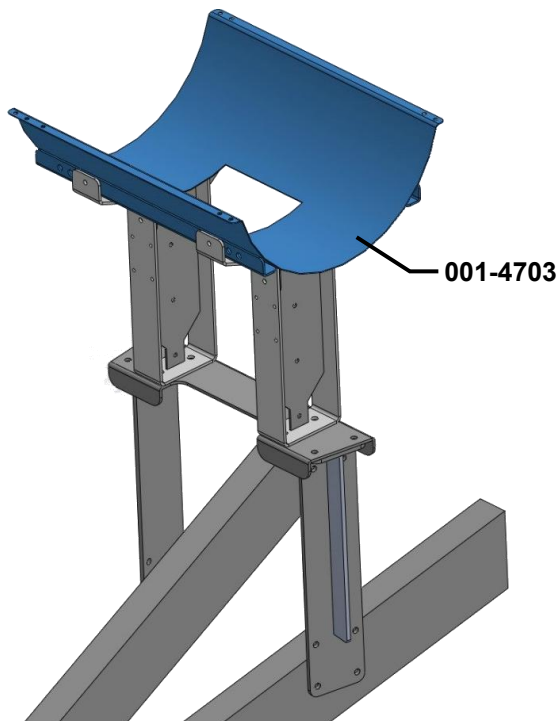
Illustrated Installation
For Install Kit 4538X or 4538



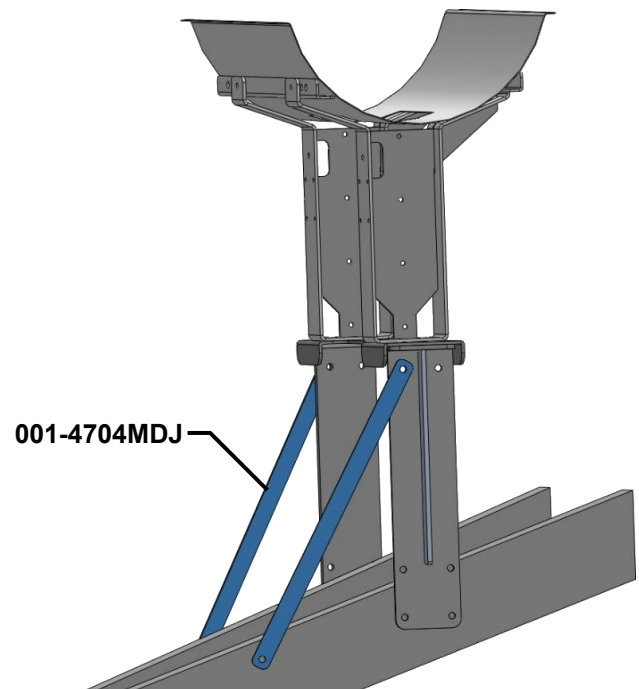
Step 1



Step 2



Step 3



Step 4

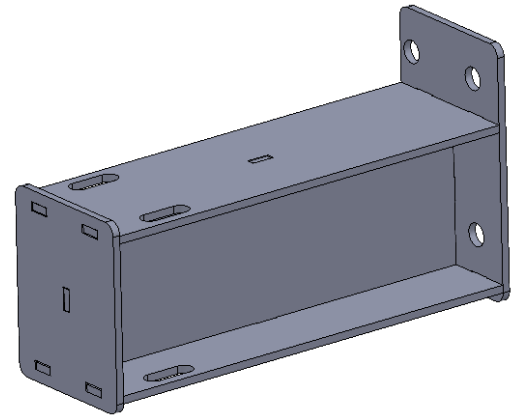
Install Kits 4543X or 4543

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

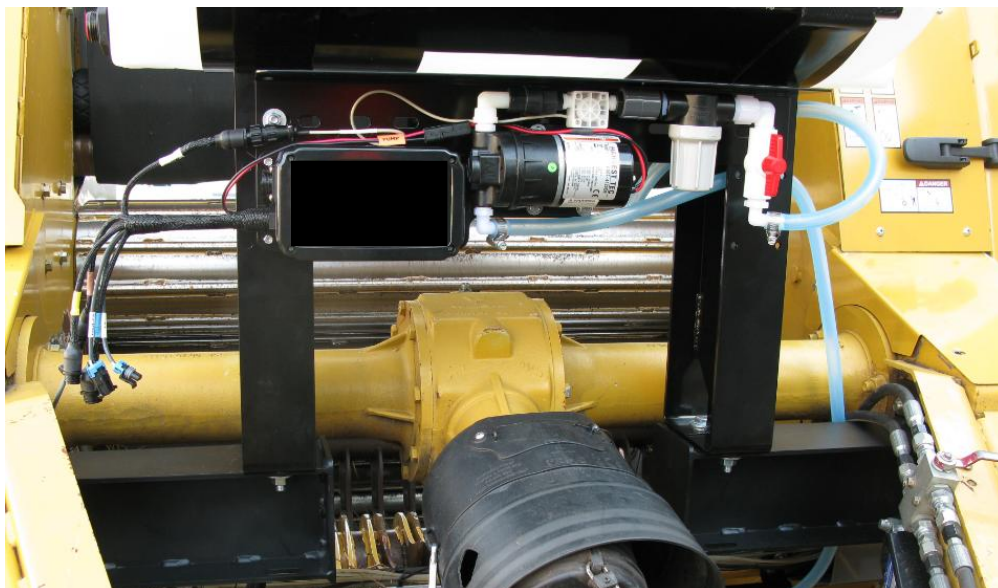
Requires Tank Mounting Kit (TMK-4543)

Locate parts bag 16 and the two Tank Leg Support Brackets (001-6055VER & 001-6055VEL) shown right.

Using the bolts already in place on the baler tongue where it meets the baler: Remove the bolts and install on each side the support brackets (001-6055VER & 001-6055VEL) and securing using the original factory bolts and nuts.



Place the Tank Saddle Legs (001-4703B) on top on top of the mounted support brackets and secure using supplied nuts, washers and bolts from parts bag 16. Place tank and saddle assembly on top of the leg supports. Start the hardware that connects the legs to the saddle, 3/8" x 1" hex bolt, lock washer, and flat washer. Once all four bolts are started, tighten the bolts that secure the tank supports.



Install Kits 4549X or 4549

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

Requires Tank Mounting Kit (TMK-4549)

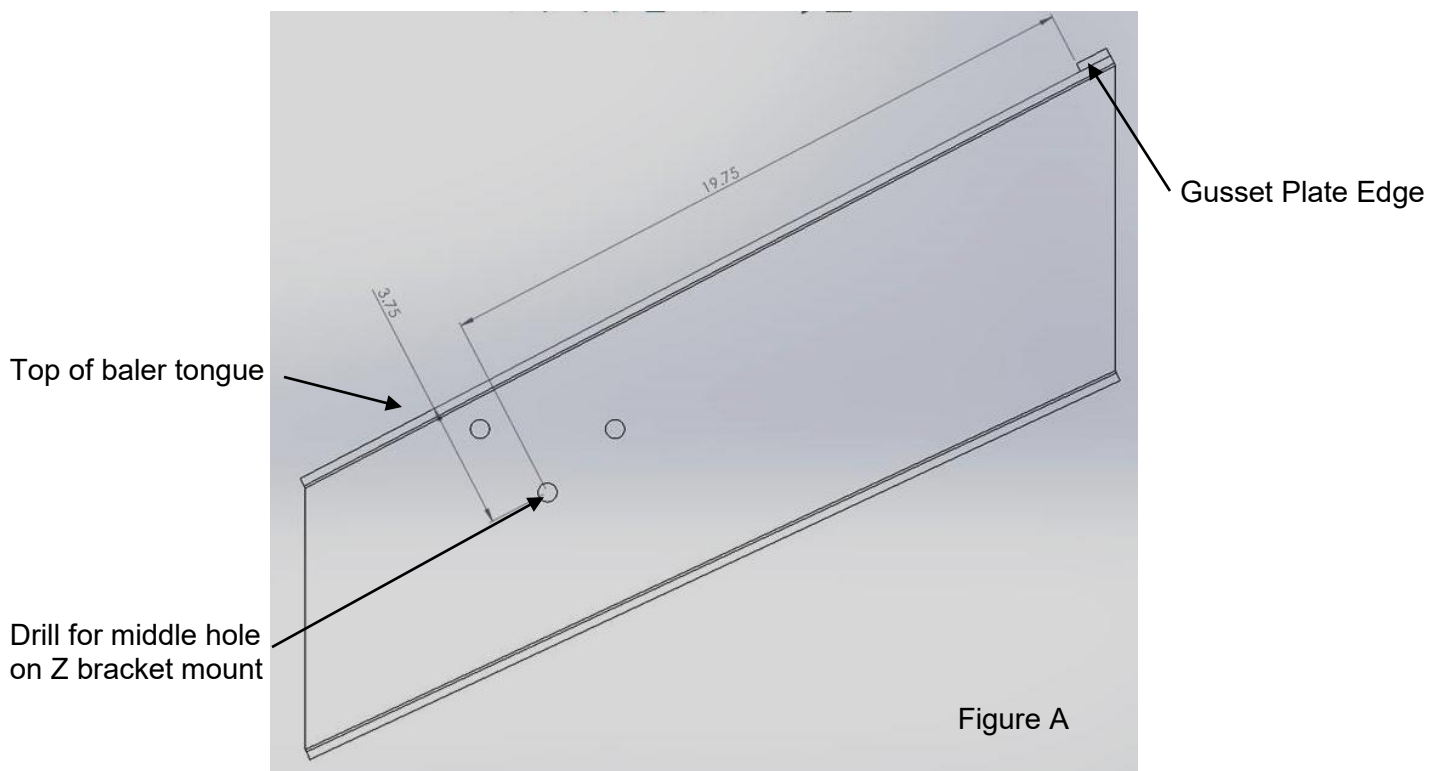
Prior to installing the tank legs, modification to the PTO gearbox shield and twine box door is required. Place hinges (001-4703VHG) approximately 2" from the outer edge of the PTO gearbox shield, mark, drill and attach each hinge connecting the PTO shield to the twine box door with four 5/16"x1" flange bolts and nuts. After hinges are secured, remove factory bolts attaching PTO shield to twine box door. This will result in a hinged access to the PTO gearbox which allows the twine box door to open after the preservative tank is mounted.



Add hinges and secure before lifting and removing factory bolts that connect the panels



The Z-shaped brackets (001-4703F) will attach to the baler tongue with three 1/2" x 1 1/2" bolts per side. The baler tongue must be supported either at the field-ready position or hooked to the tractor. The first hole should be marked and placed 19.75" from the front side of the gusset plate and 3.75" down perpendicular from the top of tongue (see Figure A on next page). Mark and drill center hole on each side of the tongue. Attach Z bracket by using one 1/2" x 1 1/2" bolt, washer, lock washer and nut on each side. Place a level across the top of each bracket and pivot until horizontal. Tighten brackets to tongue. Mark and drill the remaining two holes on each side. Secure with additional 1/2" x 1 1/2" bolts, washers, lock washers and nuts.

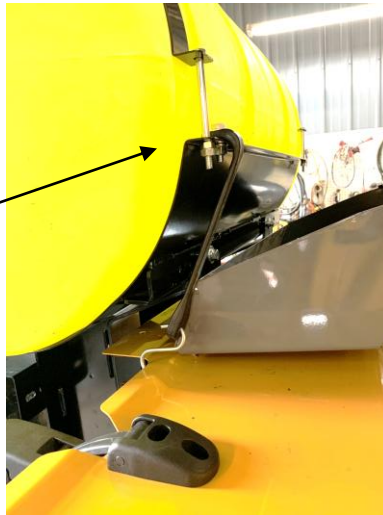


Install Kits 4549X or 4549 (continued)

Attach tank legs (001-4703B) to the tank saddle with 3/8" x 1" bolts, lock and flat washers. Install both sides of legs before tightening down any of the bolts. Place the tank saddle legs (001-4703B) on top on top of the Z shaped mounting brackets and secure with nuts, washers and bolts from parts bag 16. Tighten all bolts on tank mount assembly and brackets. Install tank and secure with tank straps.

Crimp one side of the S hooks securing it to the rubber latch strap (001-4703CL). Attach one open end of latch strap to an unused hole on the tank saddle and crimp closed. Use remaining open S hook end on latch strap for temporarily assisting in accessing the twine box.

Crimp S hook from latch strap to unused hole on tank saddle to allow for easier access to twine box door



Install Kits 4555X or 4555

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

Requires Tank Mounting Kit (TMK-4549)

Ensure that the baler is parked in the field-ready draw bar height position. Remove the hose holder bracket from the baler tongue. Mark a line straight across the twine door connecting the bottom outside edges on both sides. Make a clean cut along the line to cut the lower portion of the shield off. Clamp the two pieces back together and mark the mounting hole locations of the hinges. Drill the holes for the hinge hardware and attach the bottom portion of the shield back to the twine door with the two hinges. Drill 2x 5/16" hole near the corners (X) of the lower shield, and attach the rubber bump stops to the bottom of lower shield with 1/4" hardware.



Locate the gusset on the top face of the baler tongue. Along the top outside edge of the tongue, Measure and mark distances A, B, & C referenced below. Using a square along the top outside edge of the tongue, measure down distance D, E, & F as indicated below, and make a mark (+).

Dimensions:

A = 18"

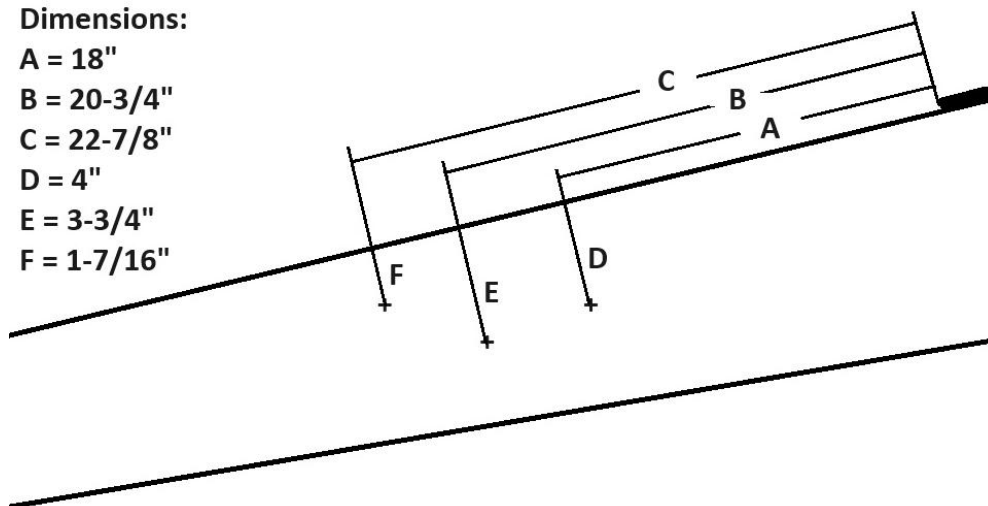
B = 20-3/4"

C = 22-7/8"

D = 4"

E = 3-3/4"

F = 1-7/16"



Install Kit 4555X (continued)

Clamp 001-4703F to the side of the baler tongue, aligning the 3 holes in the bracket with the three marks on the side of the tongue. With the holes aligned, verify that the top of 001-4703F is level, center punch the 3 locations. Unclamp 001-4703F and drill a 9/16" diameter hole in the three locations. Bolt 001-4703F to the side of the tongue with the supplied 1/2" hardware. Repeat the process for the 2nd 001-4703F bracket on the other side of the tongue.



After both 001-4703F brackets are bolted to the tongue, install the 001-4703B legs to the tank saddle using the inside set of holes on the saddle. Orient both legs so they have the gusset on the backside of the legs towards the baler. Attach the legs to the saddle with 3/8" hardware. Place the tank saddle assembly with legs on top of the 001-4703F brackets, center, and secure with 1/2" hardware.

Attach the strap to the saddle. Fold the lower portion of the twine door up, verify it does not contact the mounting brackets. If there is interference, the interfering section of the lower shield may need to be trimmed. Open the twine door until it is horizontal to verify clearance, the strap can be used to hold the door in the open position. Hose holder bracket may be reinstalled at installer's discretion onto tank leg bracket if space allows.

Crimp one side of the S hooks securing it to the rubber latch strap (001-4703CL). Attach one open end of latch strap to an unused hole on the tank saddle and crimp closed. Use remaining open S hook end on latch strap for temporarily assisting accessing the twine box.



Crimp S hook from latch strap to unused hole on tank saddle to allow for easier access to twine box door



in

Drain Fill Line Tank Kit (030-0493DFK)

Included with 731, 747, 749 or 431, 442, 448 Applicator Kits

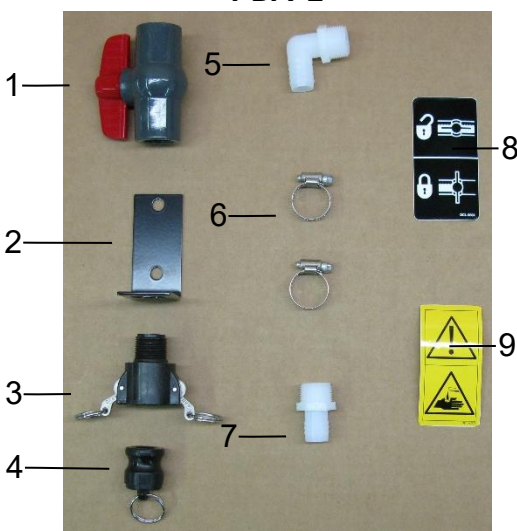
Installation

Locate Parts Bag 1 (PBA-1) and 3/4" EVA Tubing. Thread 3/4" elbow fitting (003-EL3434) into end of tank. Run the 3/4" hose from the elbow down the frame to a suitable location at the bottom of the baler. Locate the two holes on the baler's angled support bracket that line up with the holes in the valve bracket (001-6702H) and attach using two 5/16" x 1" self-tapping screws and secure with two 5/16" flange nuts. Connect valve assembly to other end of hose. Place hose clamps on both ends. Install supplied safety decals (DCL-8001 & DCL-8005) next to the ball valve assembly. Secure hose to baler frame using cable locks. The drain/fill line is to be used for all filling or draining of the tank. Fill or drain tank from ground level only. Transfer Pump Kits are available from Harvest Tec to utilize the drain/fill line connections.



Parts Bag Packages & Hoses

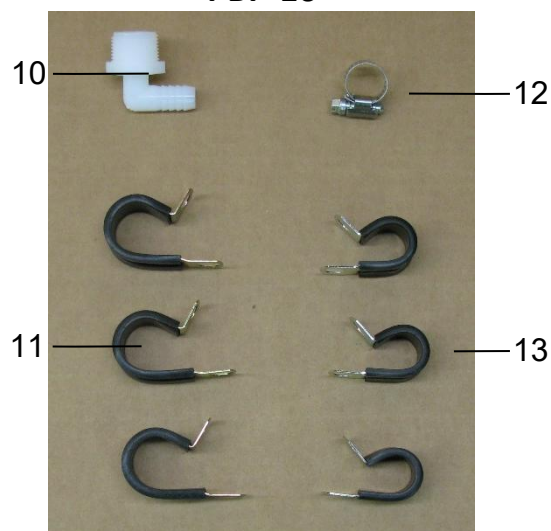
PBA-1



<u>Ref</u>	<u>Description</u>	<u>Part #</u>
1	3/4" Ball Valve	002-2200
2	Valve Holder	001-6702H
3	Female Coupler	002-2204A
4	Male Shut-Off Plug	002-2205G
5	3/4" x 3/4" Elbow	003-EL3434
6	#10 Hose Clamp	003-9004
7	3/4" x 3/4" Straight Fitting	003-A3434
8	Valve Decal	DCL-8004
9	Chemical Hazard Decal	DCL-8001

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

PBP-16



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
10	3/4" x 1/2" Elbow	003-EL3412	1
11	3/4" Jiffy Clip	008-9010	3
12	#6 Hose Clamp	003-9003	1
13	Small Jiffy Clip	008-9009	3

RB Hoses – Elec. Systems

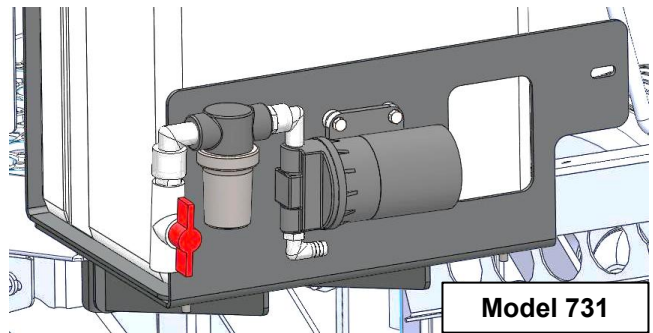
1/2" Hose (Pump to Spray Shield)	002-9001	20 ft
3/4" (Drain/Fill Line)	002-9002	10 ft

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 431 Applicators:

The pump and filter bowl assembly will attach to the tank frame (001-4705B) using the predrilled holes as shown (right) using the hardware supplied on the pump.



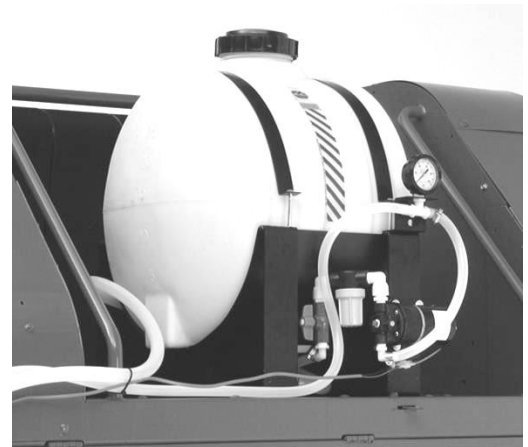
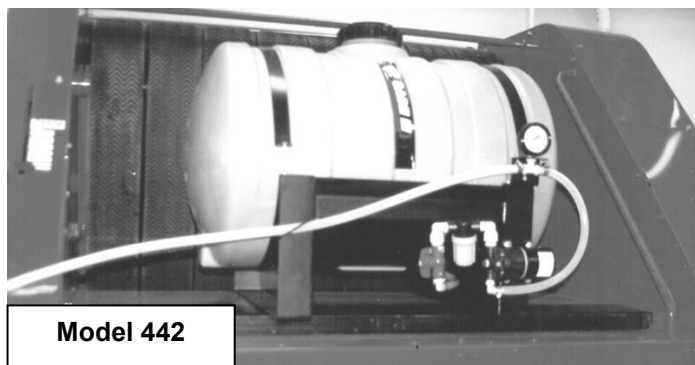
Model 441 Applicators:

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



Model 442 Applicators:

The pump and filter bowl assembly will mount to the predrilled holes on tank saddle (001-4445 or 001-4445A) as shown, using the 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.

Spray Shield Assembly

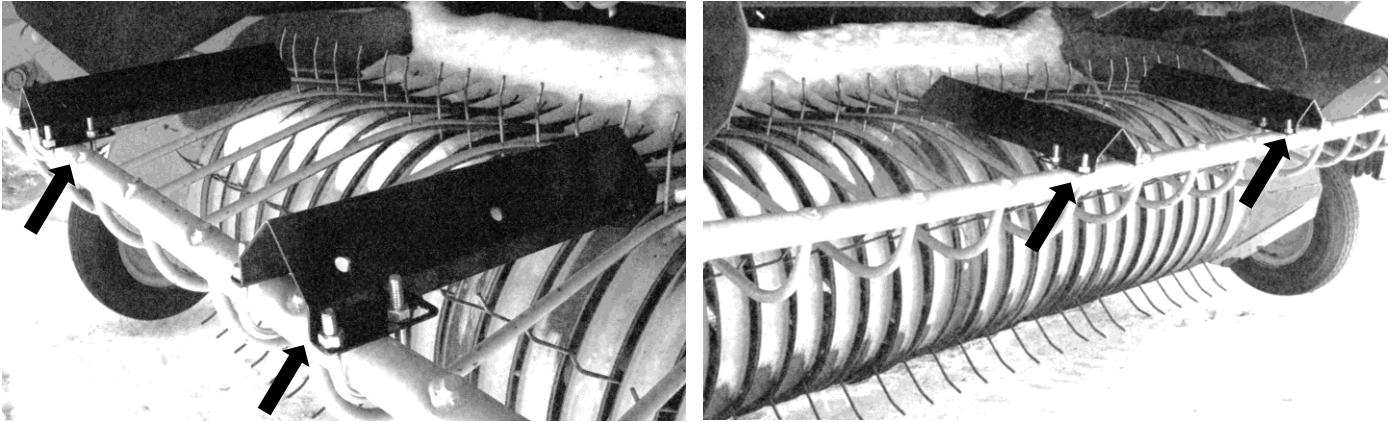
Placement and Installation: Harvest Tec Applicator systems use spray shield assemblies that are specifically designed for various baler models. Refer to the Install Kit number for your baler and applicator system for the specific placement and installation instructions of the spray shield assembly.

Install Kits 4481X, 4482X, 4483X, 4484X, 4486X, 4504X, 4505X or 4481, 4482, 4483, 4484, 4486, 4504, 4505

Placement - Auto Shield Kit (030-7714J-SO) or Electronic Spray Shield

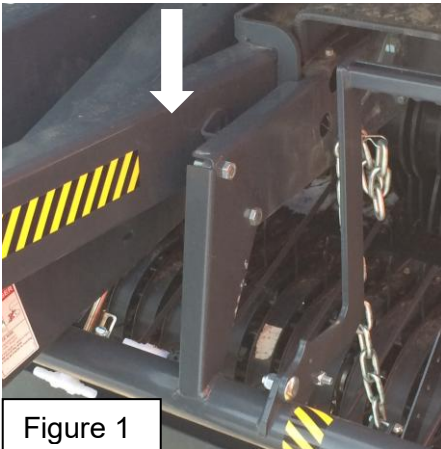
The cross bar (**For 4481X and 4481 kits only: if baler is equipped with roller wind guard, see additional instructions below*) on the wind guard above the pick-up head provides a mounting point for the nozzle holders (001-4714J). Mount the nozzle holders on the wind guard, using the supplied U bolts (001-4714UBS). Measuring from the center of the baler, the nozzle holders will need to be 6" (15cm) apart on a 4' (1.2M) and 9" (23cm) apart on a 5' (1.5M) Do not fully tighten.

Position the nozzle holders so that the tips spray in a horizontal direction over the top of the baler's pickup. The tips should be located so that they will be between 14" and 18" (35 - 45 cm) from the normal path of hay. Make sure the nozzle holders do not interfere with the tying system. *It is recommended to test the system with water prior to field operation. This will ensure the fan pattern from the tips reaches the outside edges of the pickup while having a slight overlap in the center.



For balers equipped with Roller Wind Guard only (Install kits 4481X or 4481)

Locate the spray nozzle tube holder (001-4703TP), Figure 1. Situate the holder on the baler tongue, using the bottom pre-drilled hole to line up with the top hole on the pipe holder bracket (001-4703TH), Figures 2 and 3. Mark the location on the second hole down on the pipe holder bracket and drill a 5/16" (8mm) hole on both sides of the baler tongue. Attach the holder using two 3/8" x 1" bolts, locks, flats, and nuts. Mount the nozzle holders on the wind guard, using the supplied U bolts (001-4714UBS). Measuring from the center of the baler, the nozzle holders will need to be 6" (15cm) apart on a 4' (1.2M) and 9" (23cm) apart on a 5' (1.5M) Do not fully tighten until final placement has been determined and checking for pickup clearance.



Install Kit 4503X or 4503

Placement - Auto Shield Kit (030-7714JS-SO) or Electronic Spray Shield

The top cross bar above the full-shielded wind guard provides a mounting point for the short nozzle holders (Figure 1). The nozzles will point towards the baler, and a notch may need to be cut on the lip of the full-shielded wind guard for clearance of the elbow. Space the nozzles by the chart below:

PICK-UP HEAD WIDTH	LEFT SIDE (Use plugged fitting)	CENTER (Use 2-way fitting)	RIGHT SIDE (Use 2-way fitting)
48" (121cm)	12" from left (30cm)	Center	12" from right (30cm)
60" (152cm)	14" from left (35cm)	Center	14" from right (35cm)
72" (180cm)	15" from left (38cm)	Center	15" from right (38cm)

Figure 1

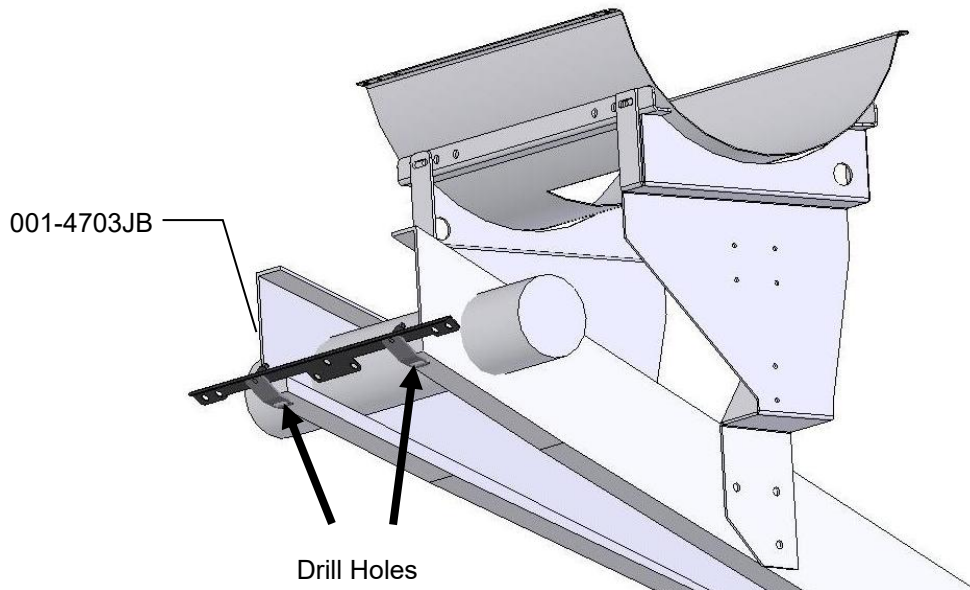


Mount the nozzle holders (001-4714JS) on the wind guard, using the supplied U bolts (001-4714UBS). Measuring from the center of the baler, the nozzle holders will need to be 6" (15cm) apart on a 4' (1.2M). Do not fully tighten until final placement and angle is determined for optimal spray coverage.

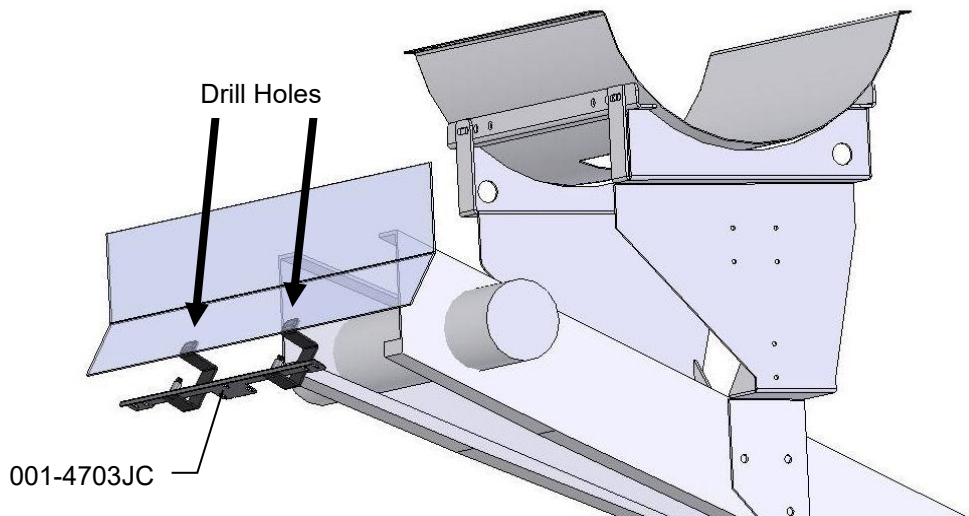
Install Kit 4508X or 4508

Placement - Auto Shield Kit (030-4508X-SO) or Electronic Spray Shield

Locate the spray shield assembly (030-4508B). Fit shield with tips facing down onto the baler as shown below with the shield hangers (001-4703JB). Mark both sides of the shield (only mark one hole per side) and drill a 3/8" hole to allow the shield to be bolted to the baler using 3/8" x 1 1/2" bolts, locks, nuts, and flat washers. Remove the spray shield from the mounting brackets to install. Attach hoses to shield before installing on bracket (see installation of plumbing).



Locate the spray shield assembly (030-4508B). Fit shield with tips facing down onto the baler as shown below with the shield hangers (001-4703JC). The shield hangers will be positioned on the sheet metal between the baler's tongue and belts. The shield hangers should be positioned so that the bottom of the sheet metal is aligned with the bottom of the bend below the mounting holes and on the tongue side of the sheet metal. Mark both sides of the shield hangers (two holes per side) and drill four 3/8" (10mm) holes to allow the shield to be bolted to the baler using 3/8" x 1 1/2" bolts, locks, nuts, and flat washers. Remove the spray shield from the mounting bracket to install. Attach hoses to shield before installing on bracket (see installation of plumbing).

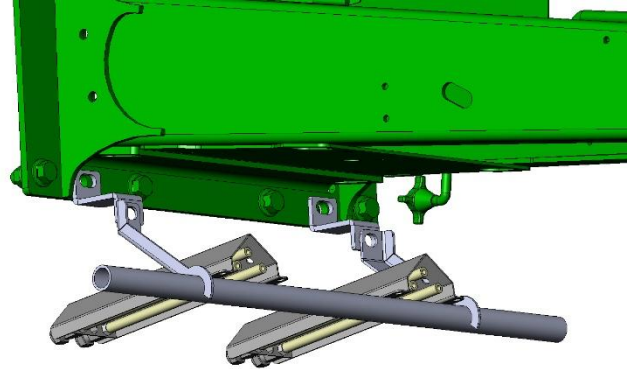


Install Kits 4516X, 4517X or 4516, 4517 Uses Shield Mounting Kit (SMK-4516)

Placement - Auto Shield Kit (030-7714J-SO) or Electronic Spray Shield Kit (030-4516-SO)

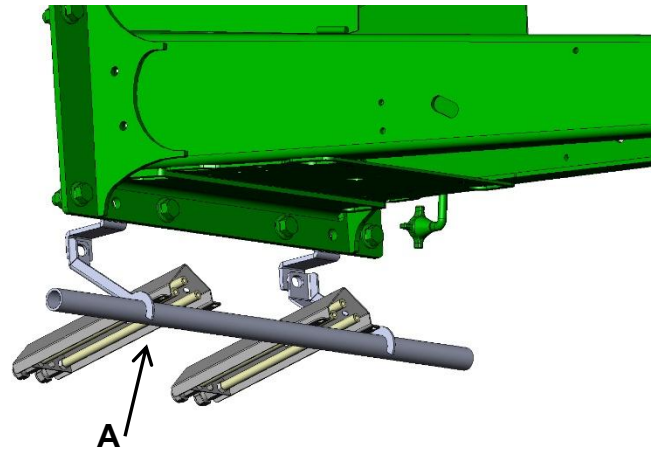
For Twine and Net Balers:

Locate the four flange head bolts where the baler hitch bolts to the bottom side of the baler frame. Remove the two outside bolts. Attach the spacers (001-4703NS) to the **hitch side** of the baler frame. Use original hardware to secure. Attach the nozzle holder (001-4703R) to the spacers with the supplied M16 x 40mm flange bolts and nuts. Attach the nozzle mount (001-4714J) to the nozzle holder (001-4703R) with 5/16" U bolts, locks, and nuts. Measuring from the center of the pickup, the nozzle holders should be about 6" apart for 4' (1.2M) wide balers and 9" (23cm) apart for 5' (12.5cm) wide balers. Do not fully tighten. Lift the roller baffle and position the end of the nozzle holder bracket so the tips are just above the roller baffle (if equipped) when it is lifted to its highest point. Tighten all hardware and attach the hoses.



For Net Only Balers:

Locate the four flange head bolts where the baler hitch bolts to the bottom side of the baler frame. Remove the two bolts. Attach the spacers (001-4703NS) to the **chamber side** of the baler frame. Use original hardware to secure. Attach the nozzle holder (001-4703R) to the spacers with the supplied M16 x 40mm flange bolts and nuts. Attach the nozzle mount (001-4714J) to the nozzle holders (001-4703R) with 5/16" U bolts, locks and nuts. Measuring from the center of the pickup, the nozzle holders should be about 9" (23cm) apart with bracket **A** as close to the V-shaped stop as possible. Do not fully tighten. Lift the roller baffle (if equipped) and position the end of the nozzle holder bracket so the tips are just above the baffle when it is lifted to its highest point. Tighten all hardware and attach the hoses.



Install Kits 4523X, 4531X, 4543X or 4523, 4531, 4543

Placement - Auto Shield Kit (030-4523X-SO) or Electronic Spray Shield Kit (030-4523-SO)

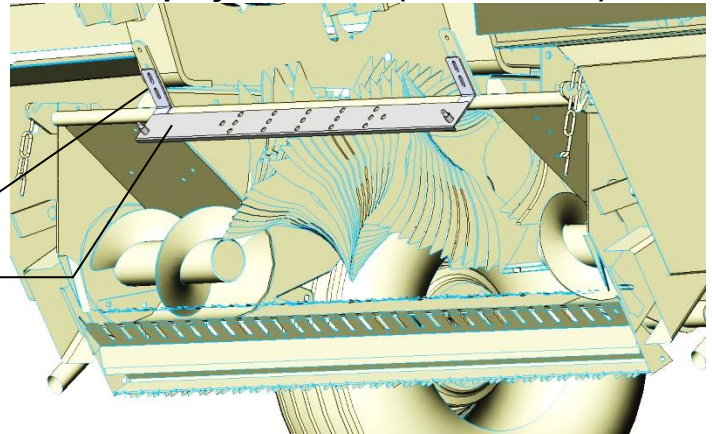
Locate the spray shield (001-4704G) and spray shield hangers (001-4704H). Mount the spray shield above the pickup reel and directly in front of the rotor on the baler. Use the two existing holes to mount the shield using four 3/8" x 1-1/2" bolts, locks, flats, and nuts. Tighten all hardware.

Note- For 4531X and 4531 kits:

Use Hanger Extender (001-4704HZ), one on each side, to attach the spray shield to the baler.

001-4704H

001-4704G



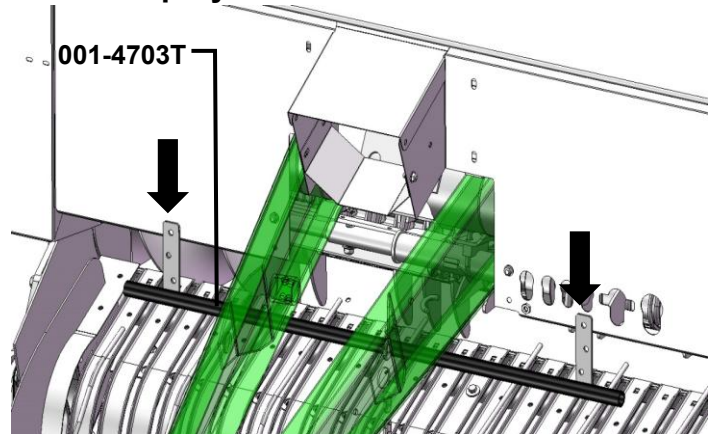
Install Kit 4524X or 4524

Uses Shield Mounting Kit (SMK-4524)

Placement - Auto Shield Kit (030-7714J-SO) or Electronic Spray Shield

Locate the spray nozzle holder (001-4703T). Situate the holder, centered on the baler sheet metal and mark one hole per side. Drill two 5/16" (8mm) holes and attach the holder using two 3/8" x 1" bolts, locks, flats, and nuts. Install one nozzle tube in the center.

The two remaining nozzle tubes, will mount 1" (25mm) in from each end. Do not fully tighten. Position the nozzle tubes so that the tips will be 14"-18" (35-45cm) away from the normal path of hay. Tighten the nozzle tubes to the nozzle holder.



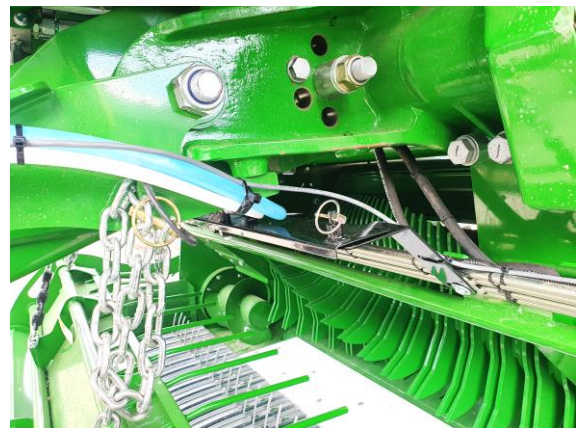
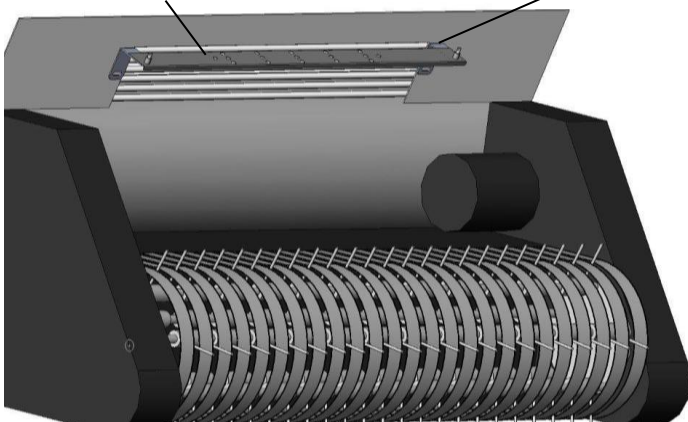
Install Kit 4526X or 4526

Placement - Auto Shield Kit (030-4526X-SO) or Electronic Spray Shield

Locate the spray shield (001-4704G) and spray shield hangers (001-4704MC). Mount the spray shield above the pickup reel as shown below. Attach the shield to the baler using the supplied two 3/8" x 1-1/2" bolts, locks, flats and nuts. Tighten all hardware.

001-4704G

001-4704MC

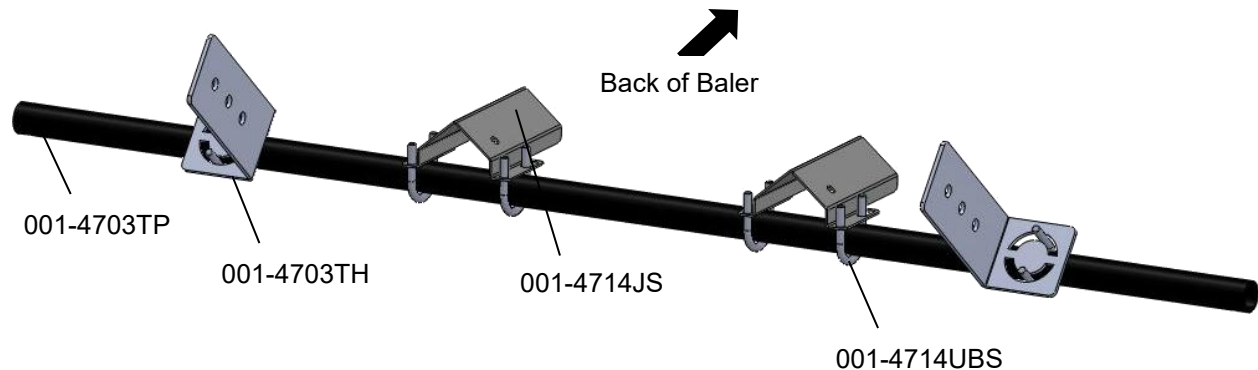


Install Kit 4538X or 4538

Uses Shield Mounting Kit (SMK-UNIV-PIPE)

Assemble (SMK-UNIV-PIPE) and Auto Spray Shield (030-7714JS-SO) or Electronic Shield

Attach the nozzle tube pipe (001-4703TP) to the pipe mounting brackets (001-4703TH) with the supplied U Bolts. Do not tighten U-bolts, to allow mounting brackets to move. Attach the nozzle mounts (001-4714JS) to the nozzle tube pipe with U-bolts and secure. The nozzle mounts should be about 6" (12.5cm) apart for 4' (11cm) wide balers and 9" (23cm) apart for 5' (12.5cm) wide balers.



Attach Spray Bar Assembly

Position mounting brackets (001-4703TH) on the baler tongue above the pick-up as shown (Figure 1) at roughly a 45 degree angle. If your baler is equipped with a roller wind guard, the angle may need to be slightly adjusted to allow clearance and proper coverage of the preservative being applied to the incoming crop. When the exact mounting position has been determined on both sides of the tongue, drill two 3/8" (10mm) holes and secure mounting brackets using four 3/8" x 1 1/4" bolts and hardware in parts bag 7. Ensure that the nozzle mounts (001-4714JS) are pointed toward the back of the baler. Side view of the mounting bracket and the nozzle pipe from the left side of the baler (Figure 2).

*Ensure pickup raises and lowers without damaging spray bar assembly.



Figure 1

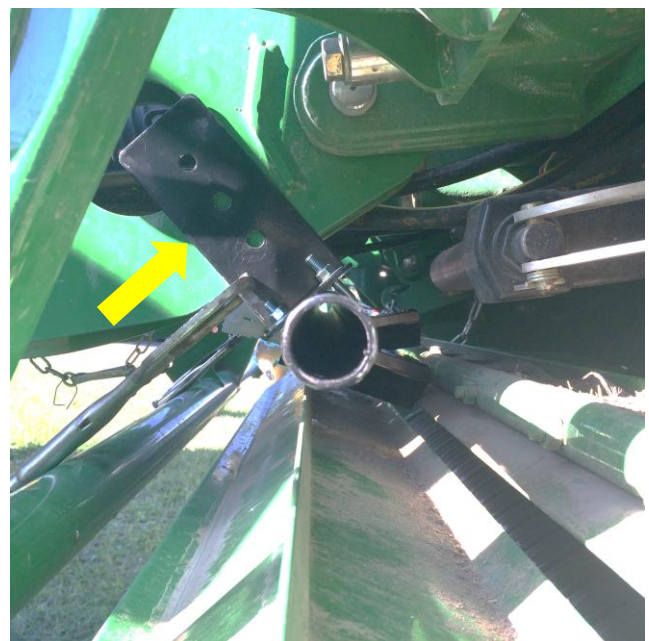


Figure 2

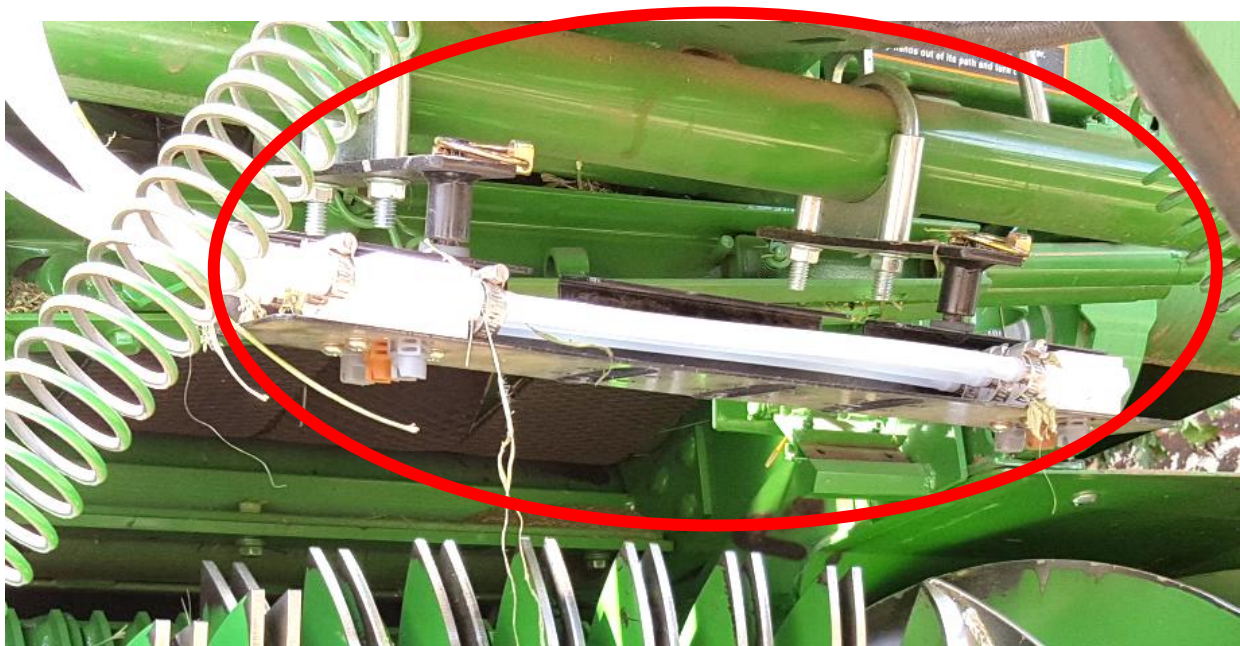
Install Kits 4547X, 4646X or 4547, 4646

Placement - Auto Shield (030-4546X-SO) or Electronic Spray Shield

Locate Spray Shield (001-4435NSX) and Shield Holder (001-4435NCX2). Position the assembly over the center of the pickup and secure the shield holder to the cross-bar support as shown (picture at right) using the two 2" U-bolts (001-4714UBX) included with the kit.

Attach the spray shield to the shield holder as shown below by using the two lynch pins provided (008-4576).

Position and adjust the angle of the spray shield so the preservative will spray in front of the rotating pre-cutter. Test with water, adjust as needed. Fully secure all hardware once proper angle has been determined.



Install Kit 4549X or 4549

Uses Shield Mounting Kit (SMK-4549)

Placement - Auto Shield (030-7714J-SO) or Electronic Spray Shield

Locate the four factory flange head bolts where the baler hitch bolts to the bottom side of the baler frame. Remove the two outside bolts. Attach Spacer Brackets (001-4703NV) to the **hitch side** of the baler frame using the original baler hardware to secure.

Attach Nozzle Holder Tube (001-4703R) to the spacer brackets using the supplied 1/2" x 1 1/2" bolts, washer, lock washers and nuts. Attach the Nozzle Mounts (001-4714J) to the Nozzle Holder Tube (001-4703R) using supplied 5/16" U bolts, locks, and nuts. Place nozzle mounts about 6 inches apart for 4-foot-wide balers or about 9" apart for 5-foot-wide balers (1.5M). Do not fully tighten. Lift the baler's roller baffle and position the end of the nozzle holder bracket so the tips are just above the roller baffle (if equipped) when it is lifted to its highest point. Tighten all hardware and attach hoses to spray nozzles.



Install Kit 4555X or 4555

Uses Shield Mount Kit (SMK-UNIV-PIPE)

Placement – Auto Shield (030-4555X) or Electronic Spray Shield (030-4555)

Attach the Nozzle Tube Brackets (001-4703TH) to the Nozzle Tube Pipe (001-4703TP) using two of the supplied U-bolts (001-4714UBS). Position the longer flange (3 holed portion) of the holder brackets up against the bottom of the baler tongue on each side, positioning the bend in the holder bracket against the gusset on the bottom side of the tongue. Center the holder brackets on the bottom side of the tongue on each side rail, and clamp in place. Mark and drill at least one mounting hole per side. Bolt holder brackets securely to bottom side of tongue.



Attach the Nozzle Tube assemblies (001-4714) to the nozzle pipe using U-bolts (001-4714UBS). Space the nozzles so there is a 50% center overlap from each spray nozzle and aim the nozzle tubes so that the spray is directed towards the bottom of the packer fingers. Tighten bolts securely after proper spacing and aiming has been determined. Excess length of nozzle pipe (001-4703TP) can be cut off at installer's discretion.

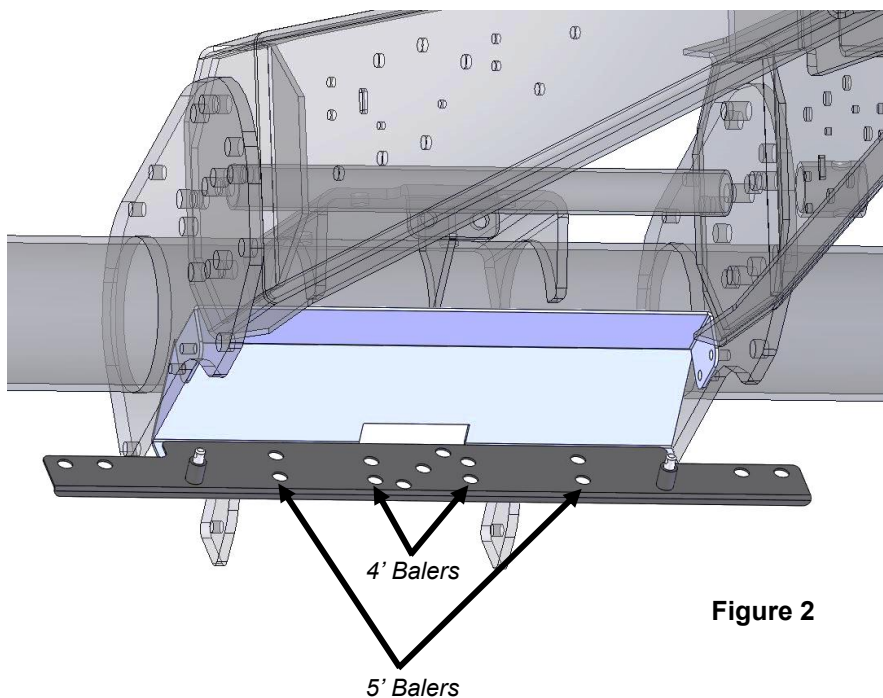
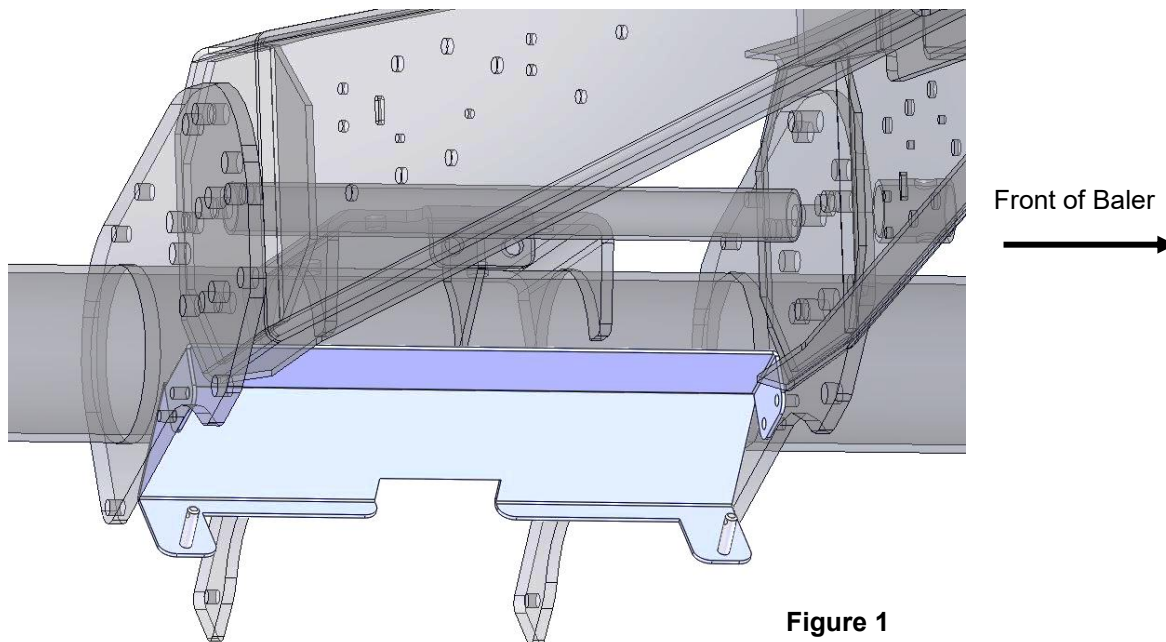


Install Kit 74725, 74755 or 44225, 44255

Placement of – Auto Shield (030-074725-SO) or Electronic Spray Shield (030-0442-SO)

Locate parts bag 10. Four 1/2" (13mm) holes will need to be drilled to mount the Shield Holder (001-4810BRH) to the baler (Figure 1). The location is directly above the baler's pickup. Mount the spray shield holder using four 5/16" x 1 1/2" bolts, locks, flats, and nuts. Attach the Spray Shield (001-4810B) to the holder using the two supplied lynch pins. Spray nozzles are set towards the outside edges for 5' wide balers, and towards the center for 4' wide balers (Figure 2).

If baler is equipped with a bale slice: contact local dealer or Harvest Tec for optional spray shield hanger brackets (001-4703BR).



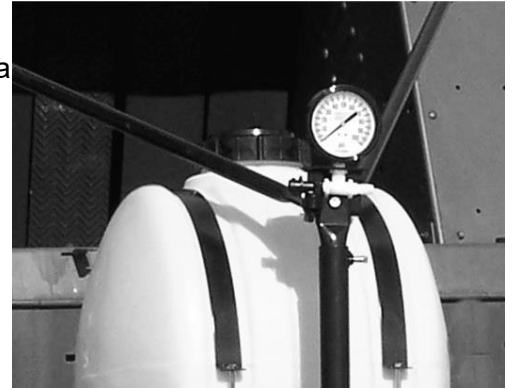
Plumbing and Pressure Gauge Installation

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.

Pressure Gauge Placement Examples:

Round Baler Tanks with Reach Rods

Place the pressure gauge and gauge holder in a position so that it is easily viewed from the seat of the tractor. The gauge holder can be used as a joiner for the two top reach rods.



Round Baler Tanks without Reach Rods

Place the pressure gauge and gauge holder in a position so that it is easily viewed from the seat of the tractor. Attach gauge holder bracket to tank saddle, using supplied hardware and a predrilled hole not already in use by the tank straps.



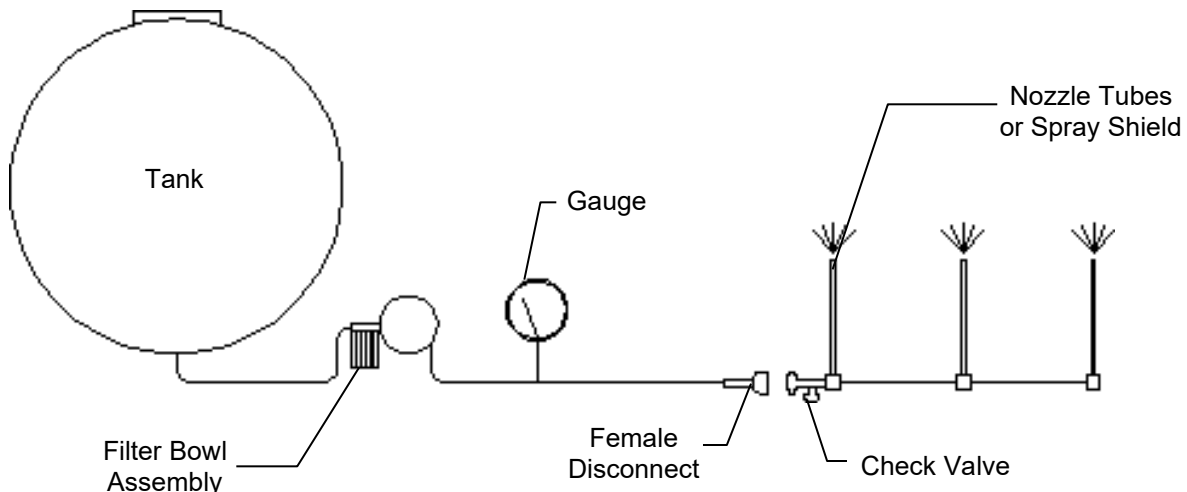
Plumbing – Hose Routing

Intake

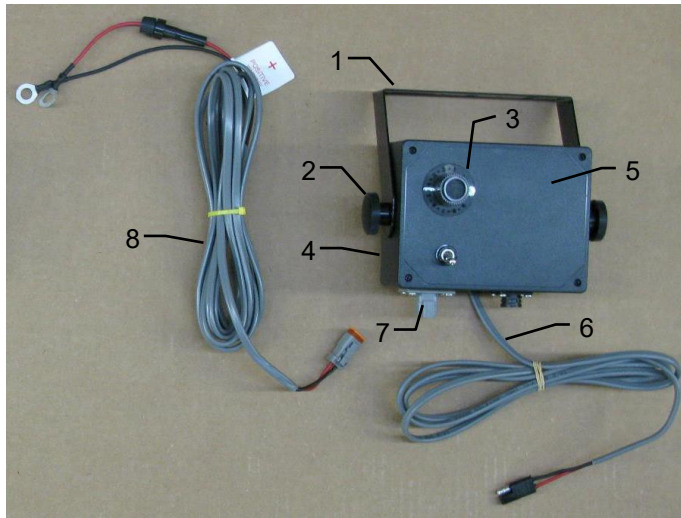
Screw the 3/4" to 1/2" elbow fitting (003-EL3412) into the bottom of the tank. Second screw the 1/2" ball valve (002- 2212) with elbow into the filter assembly. Lastly, route the 1/2" hose (002-9001) from bottom of the tank to ball valve. Secure with hose clamps.

Outlet

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 first nozzle tube with the check valve. Cut the hose to length and attach the female disconnect and straight fitting. Attach these to the check valve using one rubber washer.



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)

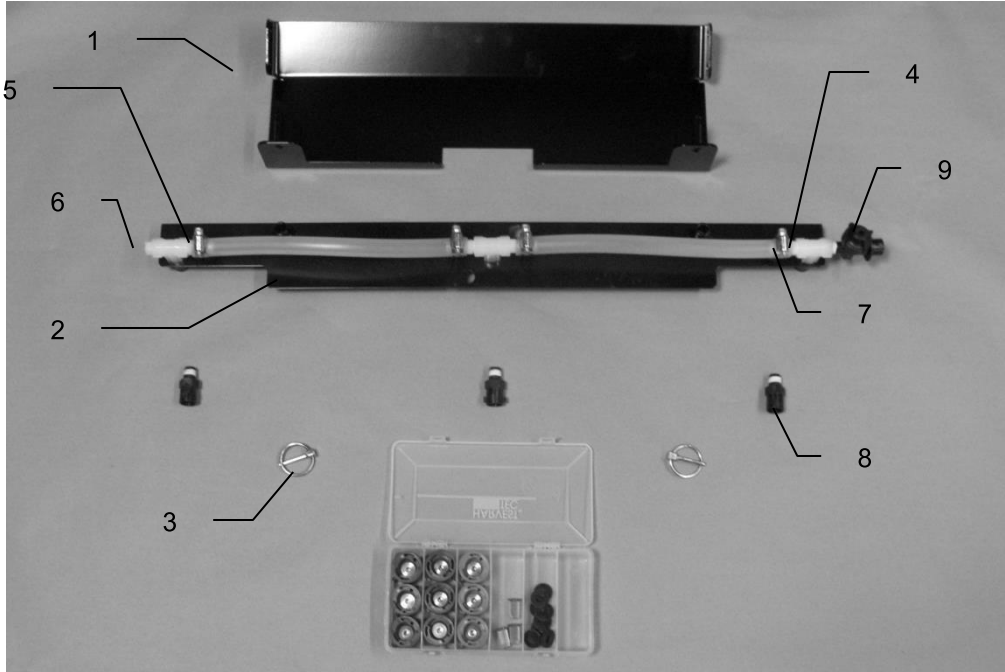
Locate parts bag 13 for hardware to mount control box in a suitable location within the tractor cab.

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.

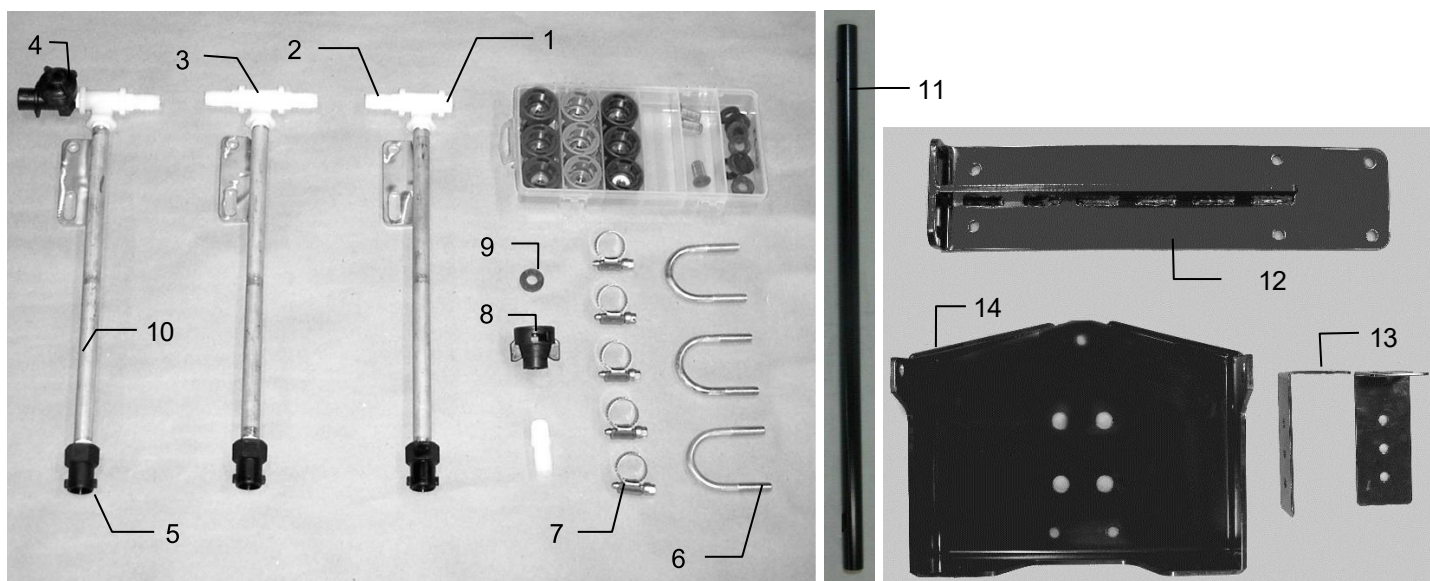
Caution: Do not run a pump or use an electronic control box directly off a battery charger. For stationary use, the applicator can be connected to a new battery and the battery connected to a charger

44225 and 44255 Applicators



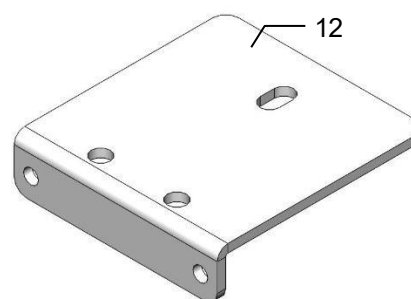
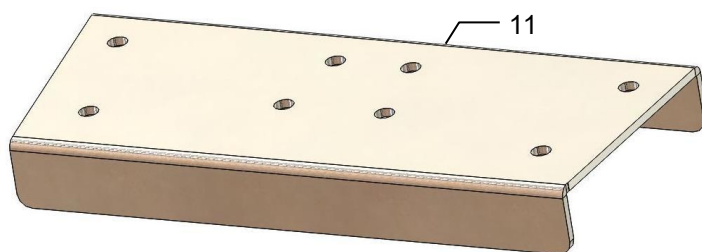
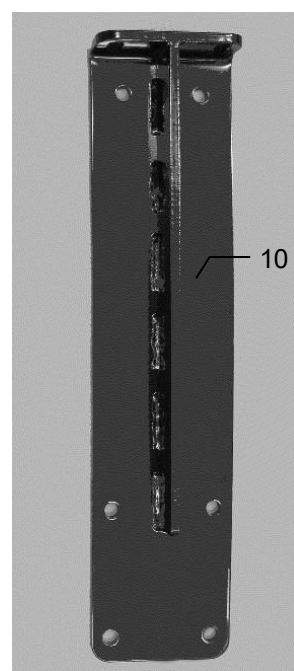
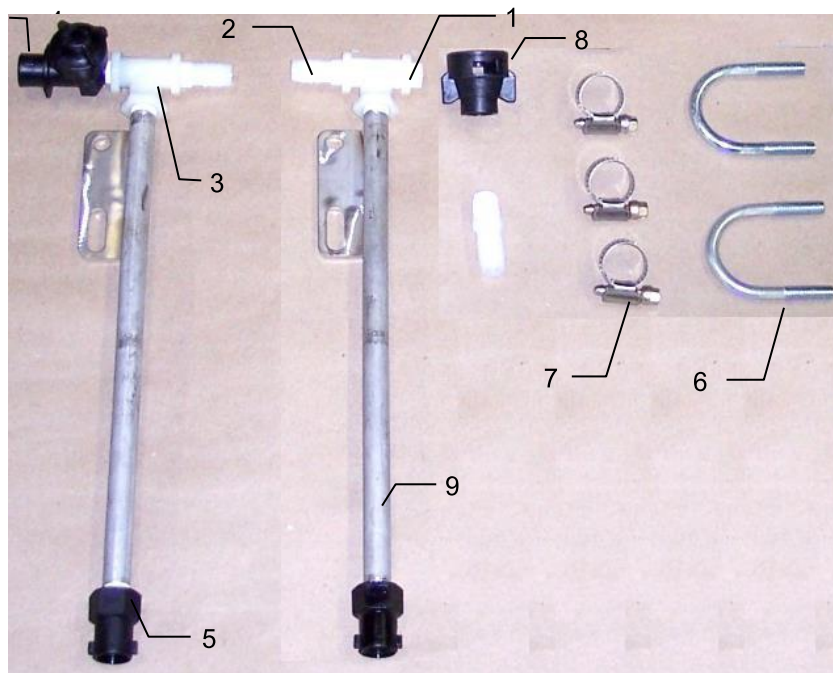
Ref	Description	Part #	Qty	Description	Part #	Qty
1	Shield bracket	001-4810BRH	1	Complete Tip Kit	030-9002	
2	Spray shield	001-4810B	1	<u>Tip Kit Includes the Following:</u>		
3	Lynch pin	008-4576	2	Plastic Box	008-9000	1
4	Tee	003-TT14	3	Red Cap	004-1207B	3
5	Straight fitting	003-A1412	5	Outside Tip (Red Set)	004-650050-SS	2
6	Plug	003-F14	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Hose clamp	003-9003	5	Green Cap	004-1207A	3
8	Male quick fitting	004-4710	3	Outside Tip (Green Set)	004-6501-SS	2
9	Check valve	004-1207V	1	Inside Tip (Green Set)	004-XR110015VS	1
				Blue Cap	004-1207C	3
				Outside Tip (Blue Set)	004-6502-SS	2
				Inside Tip (Blue Set)	004-XR11002VS	1
				Tip Strainer	004-1203-100	3
				Washer	004-1207W	9

Model 4481 Installation Kit



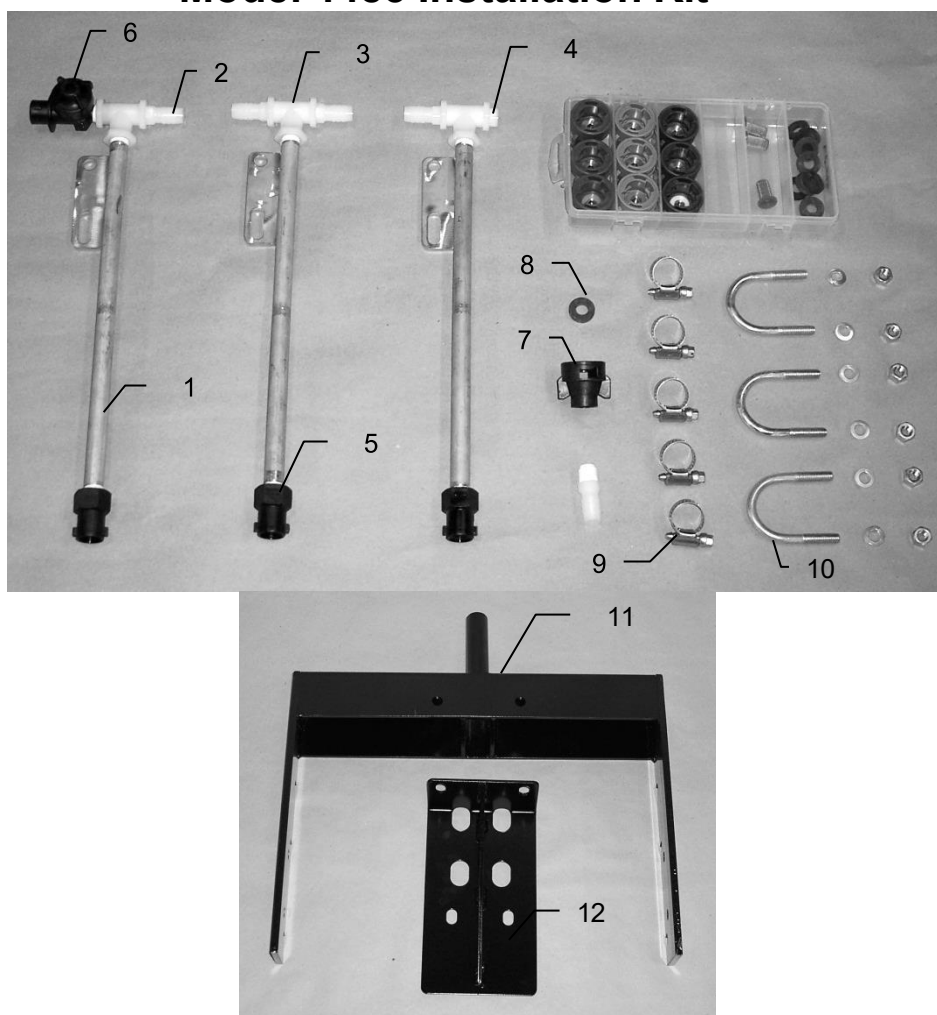
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1	Plug	003-F14	1	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Check Valve	004-1207V	1	Red Cap	004-1207B	3
5	Female Coupler	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	U bolt	001-4714UBS	3	Inside Tip (Red Set)	004-XR11001VS	1
7	Hose Clamp	003-9002	5	Green Cap	004-1207A	3
8	Female Disconnect	004-1207H	1	Outside Tip (Green Set)	004-6501-SS	2
9	Washer	004-1207W	1	Inside Tip (Green Set)	004-XR110015VS	1
10	Nozzle Tube	001-4714	3	Blue Cap	004-1207C	3
11	Nozzle Holder	001-4703TP	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Top Support	001-4704MK	1	Inside Tip (Blue Set)	004-XR11002VS	1
13	Pipe Holder	001-4703TH	2	Washer	004-1207W	9
14	Side Support	001-4704MAK	2	Tip Strainer	004-1203-100	3
				Spray Assembly (1-10, Tip Kit)	030-4400C	
				Univ. Pipe Mtg. Kit (parts 11 ,13)	SMK-UNIV-PIPE	
				Tank Mount Kit (parts 12,14)	TMK-4481	
				Complete Assembly (all parts)	030-4481	

Model 4482 Installation Kit



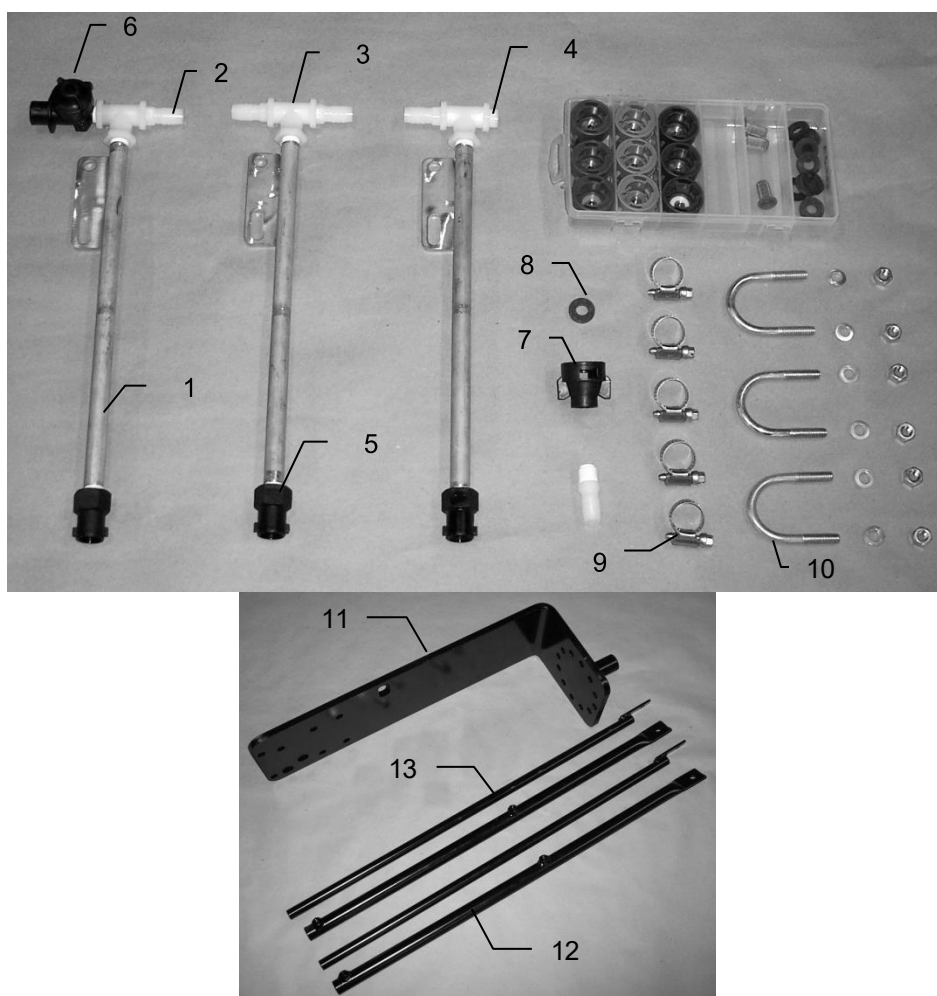
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1	Plug	003-F14	1	NP	Tip Kit	030-9009	1
2	Straight fitting	003-A1412	3		<u>Included in Tip Kit:</u>		
3	Tee	003-TT14	2		Red Cap	004-1207B	2
4	Check valve	004-1207V	1		Tip – Orange	004-XR11001VS	2
5	Female coupler	004-1207G	2		Green Cap	004-1207A	2
6	U bolt	001-4714UBS	2		Tip - Blue	004-XR11003VS	2
7	Hose clamp	003-9003	3		Blue Cap	004-1207C	2
8	Female disconnect	004-1207H	1		Tip-Yellow	004-XR11002VS	2
9	Nozzle tube	001-4714	2		Tip Strainer	004-1203-100	2
10	Side Support Leg	001-4704MAK	2				
11	Top Tank Support	001-4704MRF	1				
12	Front Mounting Plate	001-4703VZ	1				
					Tank Mount Kit (10-12)	TMK-4482	
					Complete Assembly	030-4482	

Model 4483 Installation Kit



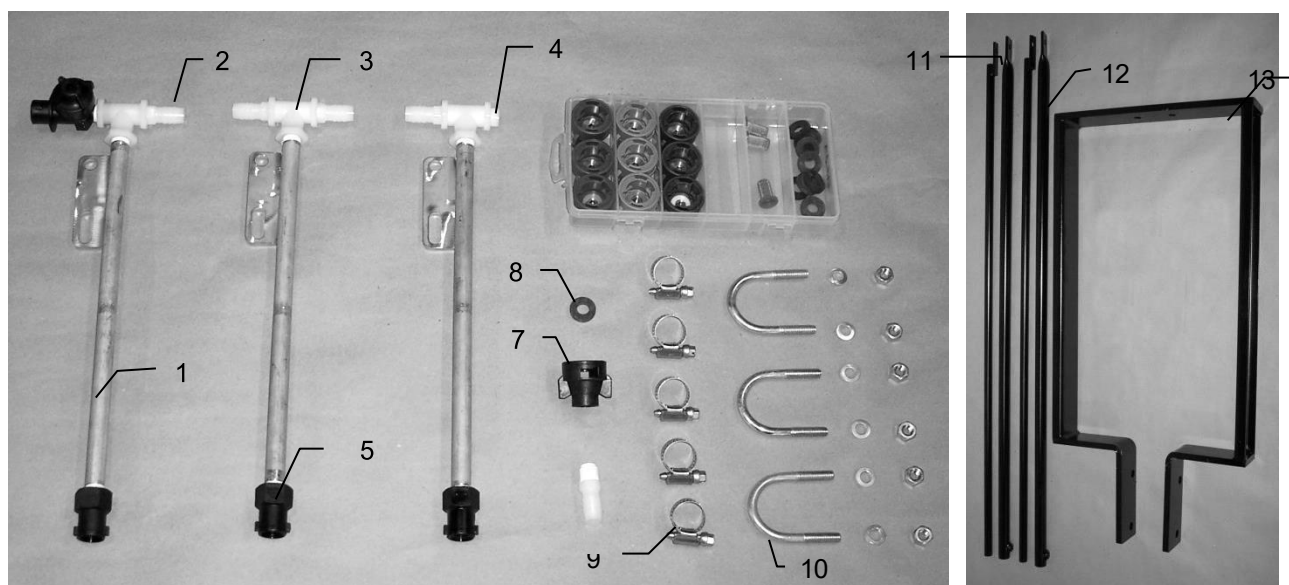
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Nozzle Tube	001-4714	3	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Plug	003-F14	1	Red Cap	004-1207B	3
5	Nozzle Body	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	Check Valve	004-1207V	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Female Disconnect	004-1207H	1	Green Cap	004-1207A	3
8	Washer	004-1207W	1	Outside Tip (Green Set)	004-6501-SS	2
9	Hose Clamp	003-9003	5	Inside Tip (Green Set)	004-XR110015VS	1
10	U-Bolt	001-4714UBS	3	Blue Cap	004-1207C	3
11	Mounting Bracket	001-4411	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Support Bracket	001-4411A	1	Inside Tip (Blue Set)	004-XR11002VS	1
				Washer	004-1207W	9
				Tip Strainer	004-1203-100	3
				Spray Assembly (1-10)	030-4400C	
				Tank Mount Kit (11-12)	TMK-4483	
				Complete Assembly	030-4483	

Model 4484 Installation Kit



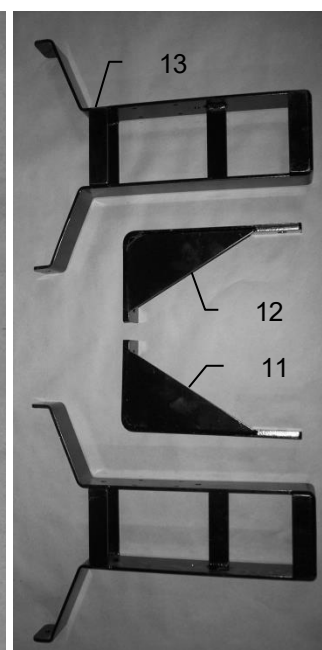
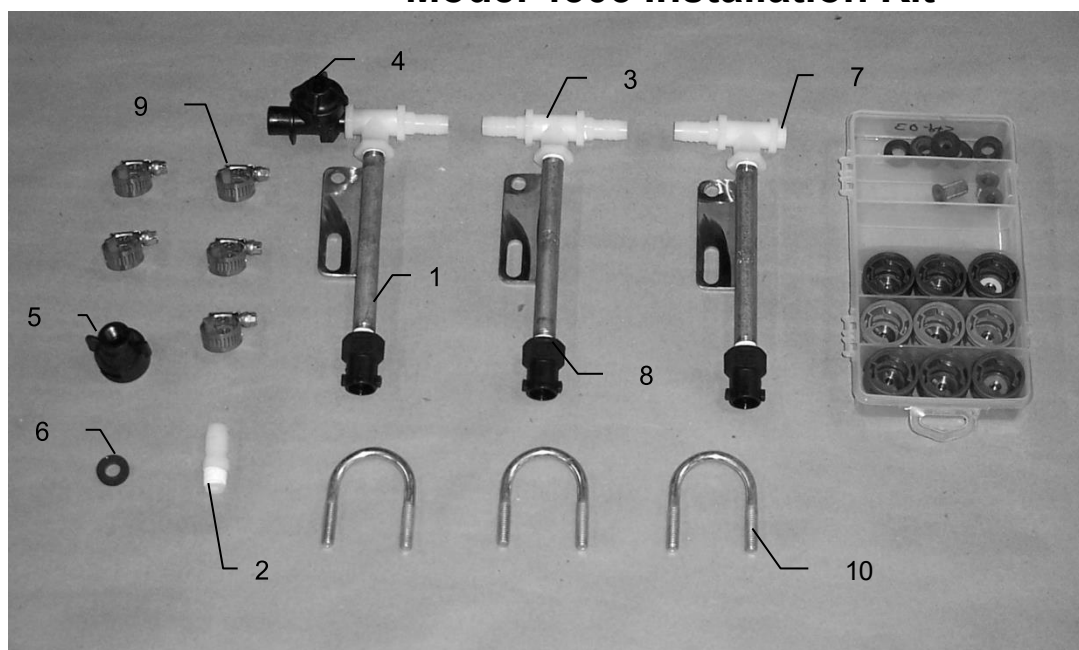
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1	Nozzle Tube	001-4714	3	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Plug	003-F14	1	Red Cap	004-1207B	3
5	Nozzle Body	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	Check Valve	004-1207V	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Female Disconnect	004-1207H	1	Green Cap	004-1207A	3
8	Washer	004-1207W	1	Outside Tip (Green Set)	004-6501-SS	2
9	Hose Clamp	003-9003	5	Inside Tip (Green Set)	004-XR110015VS	1
10	U-Bolt	001-4714UBS	3	Blue Cap	004-1207C	3
11	Mounting Bracket	001-4418	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Outer Reach Rod	001-4404	2	Inside Tip (Blue Set)	004-XR11002VS	1
13	Inner Reach Rod	001-4405	2	Washer	004-1207W	9
				Tip Strainer	004-1203-100	3
Spray Assembly (1-10, Tip Kit)				030-4400C		
Tank Mount Kit (11-13)				TMK-4484		
Complete Assembly				030-4484		

Model 4486 Installation Kit

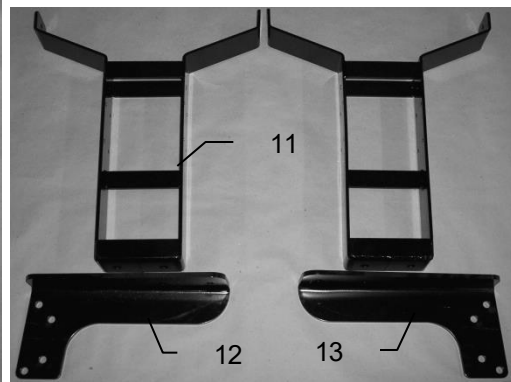


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Nozzle Tube	001-4714	3	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Plug	003-F14	1	Red Cap	004-1207B	3
5	Nozzle Body	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	Check Valve	004-1207V	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Female Disconnect	004-1207H	1	Green Cap	004-1207A	3
8	Washer	004-1207W	1	Outside Tip (Green Set)	004-6501-SS	2
9	Hose clamp	003-9003	5	Inside Tip (Green Set)	004-XR110015VS	1
10	U-Bolt	001-4714UBS	3	Blue Cap	004-1207C	3
11	Mounting Bracket	001-4420	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Outer Reach Rod	001-4404A	2	Inside Tip (Blue Set)	004-XR11002VS	1
13	Inner Reach Rod	001-4405A	2	Washer	004-1207W	9
				Tip Strainer	004-1203-100	3
				Spray Assembly (1-10, Tip Kit)	030-4400C	
				Tank Mount Kit (11-13)	TMK-4486	
				Complete Assembly	030-4486	

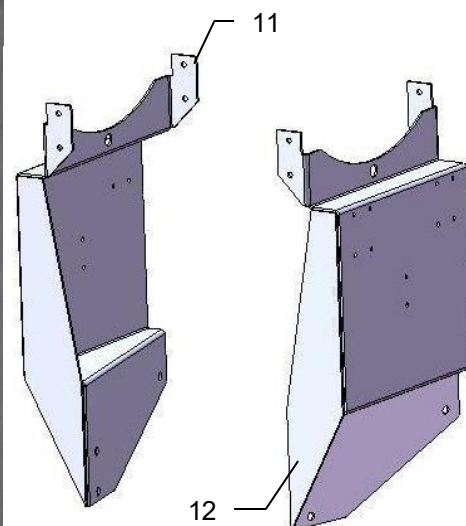
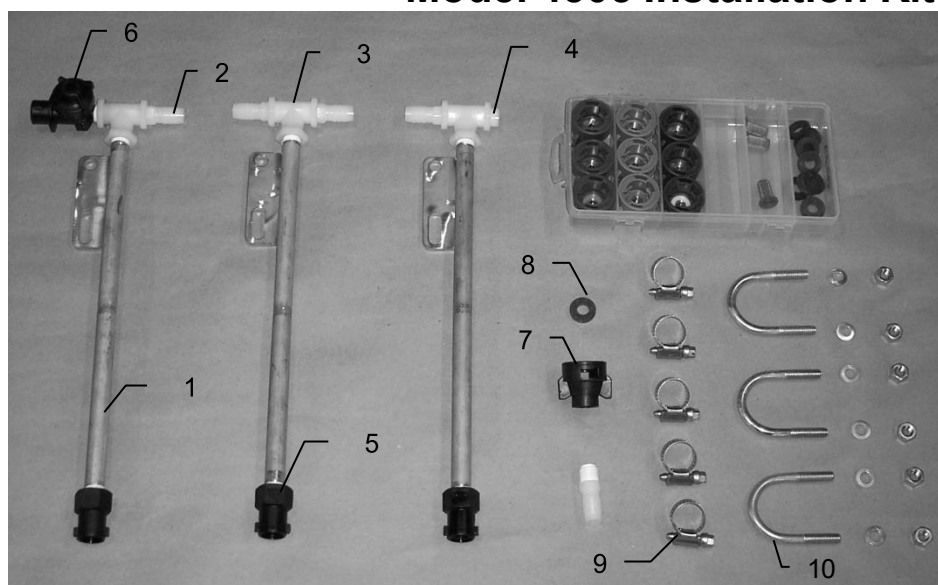
Model 4503 Installation Kit



<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Nozzle Tube	001-4714P	3	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
NP	45 Degree Elbows	003-SE4514	3	Plastic Box	008-9000	1
3	Tee	003-TT14	3	Red Cap	004-1207B	3
4	Check Valve	004-1207V	1	Outside Tip (Red Set)	004-650050-SS	2
5	Female Disconnect	004-1207H	1	Inside Tip (Red Set)	004-XR11001VS	1
6	Washer	004-1207W	1	Green Cap	004-1207A	3
7	Plug	003-F14	1	Outside Tip (Green Set)	004-6501-SS	2
8	Nozzle Body	004-1207G	3	Inside Tip (Green Set)	004-XR110015VS	1
9	Hose Clamp	003-9003	5	Blue Cap	004-1207C	3
10	U-Bolt	001-4714UBS	3	Outside Tip (Blue Set)	004-6502-SS	2
11	Left Mount Bracket	001-4703EL	1	Inside Tip (Blue Set)	004-XR11002VS	1
12	Right Mount Bracket	001-4703ER	1	Washer	004-1207W	9
13	Saddle Leg	001-4703B	2	Tip Strainer	004-1203-100	3
NP	Jack Extension	001-4703EXT	1			
				Tank Mount Kit (11-13)	TMK-4503	
				Complete Assembly	030-4503	

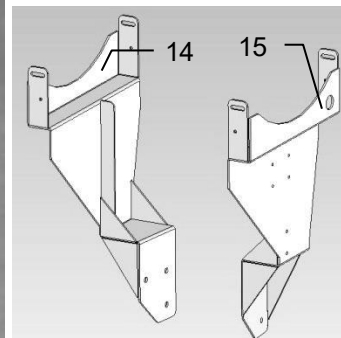
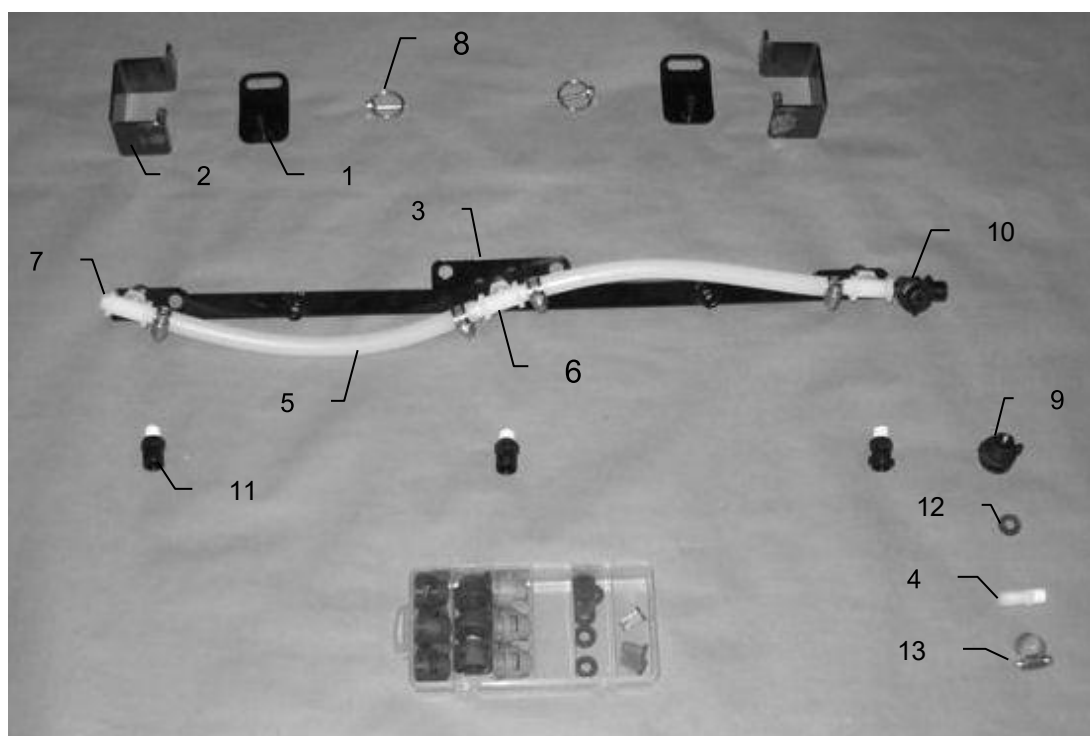
51

Model 4505 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 Tube	001-4714	3	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Plug	003-F14	1	Red Cap	004-1207B	3
5	Nozzle Body	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	Check Valve	004-1207V	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Female Disconnect	004-1207H	1	Green Cap	004-1207A	3
8	Washer	004-1207W	1	Outside Tip (Green Set)	004-6501-SS	2
9	Hose lamp	003-9003	5	Inside Tip (Green Set)	004-XR110015VS	1
10	U-Bolt	001-4714UBS	3	Blue Cap	004-1207C	3
11	Left Leg	001-4703FL	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Right Leg	001-4703FR	1	Inside Tip (Blue Set)	004-XR11002VS	1
				Washer	004-1207W	9
				Tip Strainer	004-1203-100	3
				Spray Assembly (1-10, tip kit)	030-4400C	
				Tank Mount Kit (11,12)	TMK-4505	
				Complete Assembly	030-4505	

Model 4508 Installation Kit

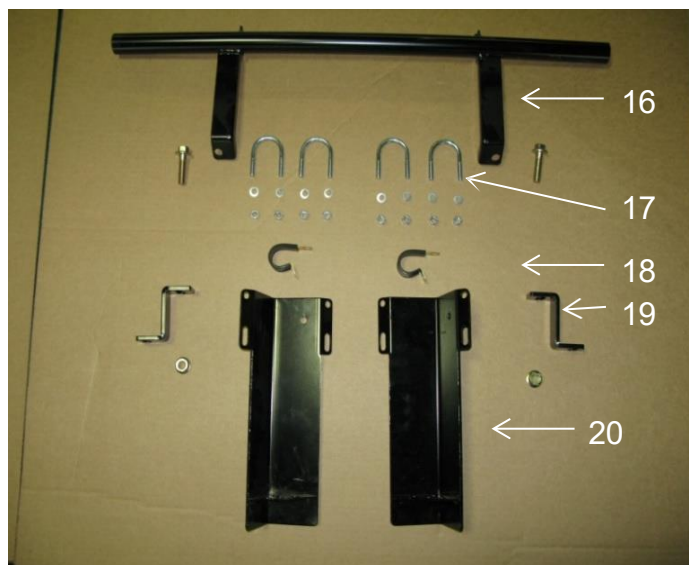
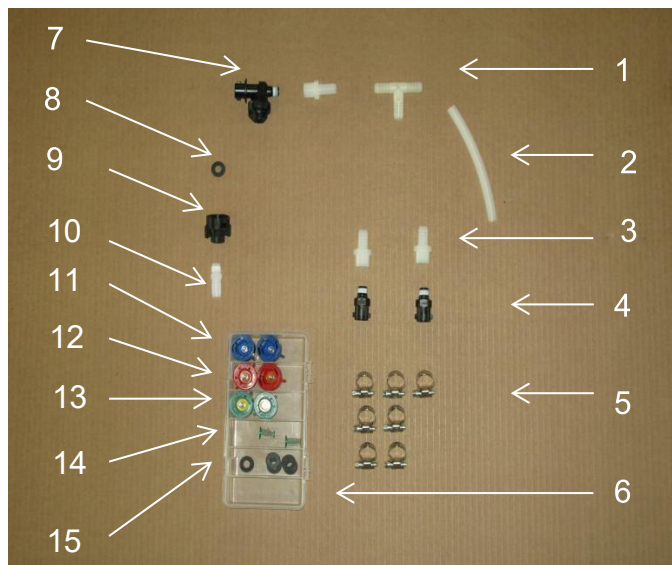


<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Shield holder	001-4703JB	2	Tip Kit (Complete)	030-9002	1
2	Shield holder	001-4703JC	2	Tip Kit Includes:		
3	Spray shield	001-4703GR	1	Plastic Box	008-9000	1
4	Straight fitting	003-A1412	5	Red Cap	004-1207B	3
5	Hose	002-9001	2	Outside Tip (Red Set)	004-650050-SS	2
6	Tee	003-TT14	3	Inside Tip (Red Set)	004-XR11001VS	1
7	Plug	003-F14	1	Green Cap	004-1207A	3
8	Lynch pin	008-4576	2	Outside Tip (Green Set)	004-6501-SS	2
9	Female disconnect	004-1207H	1	Inside Tip (Green Set)	004-XR110015VS	1
10	Check valve	004-1207V	1	Blue Cap	004-1207C	3
11	Nozzle body	004-4710	3	Outside Tip (Blue Set)	004-6502-SS	2
12	Washer	004-1207W	1	Inside Tip (Blue Set)	004-XR11002VS	1
13	Hose clamp	003-9003	5	Washer	004-1207W	9
14	Right leg	001-4703K	1	Tip Strainer	004-1203-100	3
15	Left leg	001-4703L	1			

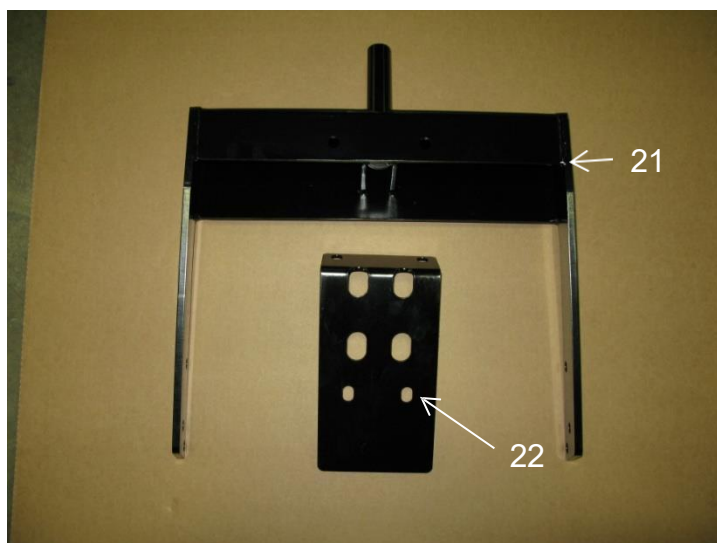
Tank Mount Kit (14, 15)
Complete Assembly

TMK-4508
030-4508

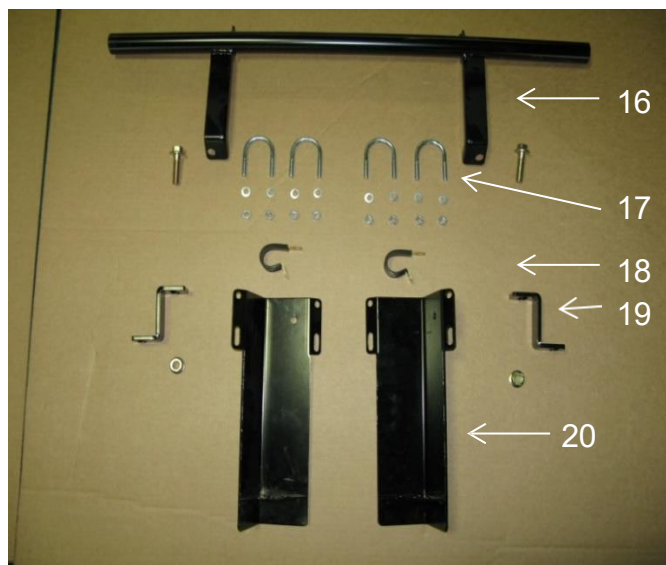
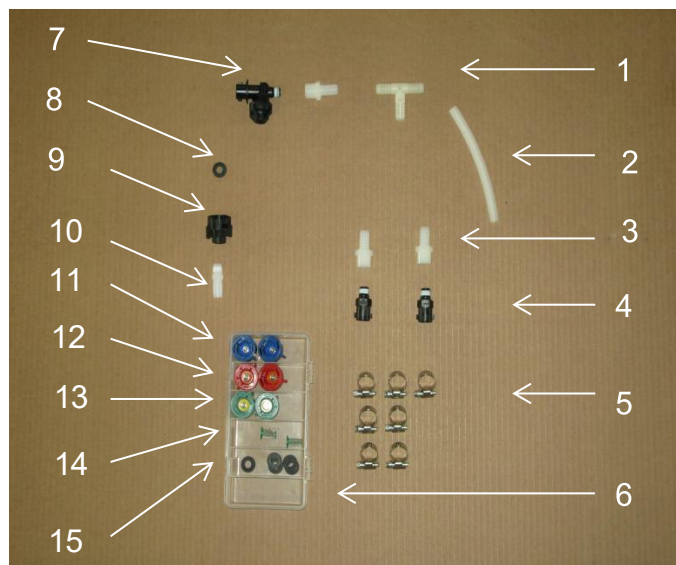
Model 4516 Installation Kit John Deere 8 & 9 Series Balers



<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	Tee	003-T1212	1	14	Strainer	004-1203-100	2
2	Hose	002-9001	4 ft	15	Rubber Washer	004-1207W	6
3	Fitting	003-A1412F	3	16	Nozzle Holder	001-4703R	1
4	Fitting	004-4710	2	17	5/16" U-bolt	001-4714UBS	4
5	Hose Clamps	003-9003	7	18	Jiffy Clips	008-9009	2
6	PLANO BOX	008-9000	1	19	Spacer	001-4703NS	2
7	Check Valve	004-1207V	1	20	Nozzle Mount	001-4714J	2
8	Rubber Washer	004-1207W	6	21	Mounting Bracket	001-4411	1
9	Coupler	004-1207H	1	22	Support	001-4411A	1
10	Fitting	003-A1412	1				
11	Cap - Blue	004-1207C	2				
	Tip - High	004-XR11003VS	2		Tip Kit Complete	030-9009	
12	Cap - Red	004-1207B	2		Spray Shield Only	030-4516-SO	
	Tip - Low	004-XR11001VS	2		Shield Mount Kit (16)	SMK-4516	
13	Cap - Green	004-1207A	2		Tank Mount Kit (21,22)	TMK-4483	
	Tip - Med	004-XR11002VS	2				
Complete Assembly						030-4516	



Model 4517 Installation Kit John Deere 8 & 9 Series Balers

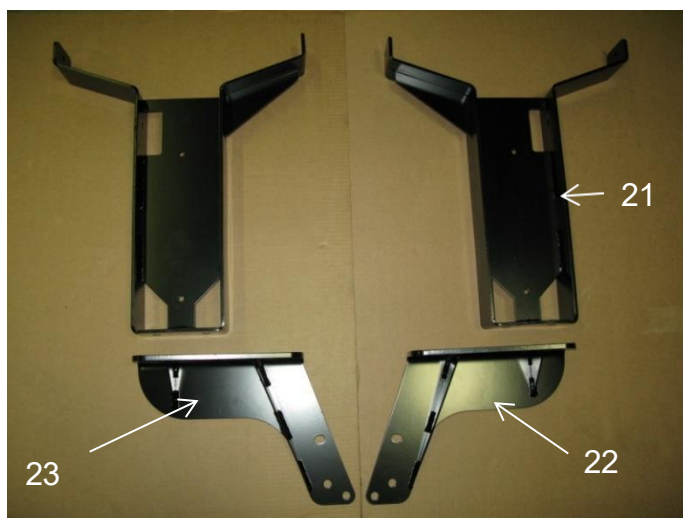


<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Tee	003-T1212	1
2	Hose	002-9001	4 ft
3	Fitting	003-A1412F	3
4	Fitting	004-4710	2
5	Hose Clamps	003-9003	7
6	PLANO BOX	008-9000	1
7	Check Valve	004-1207V	1
8	Rubber Washer	004-1207W	6
9	Coupler	004-1207H	1
10	Fitting	003-A1412	1
11	Cap-blue	004-1207C	2
	Tip -High	004-XR11003VS	2
12	Cap-red	004-1207B	2
	Tip -Low	004-XR11001VS	2
13	Cap-green	004-1207A	2
	Tip -Med	004-XR11002VS	2

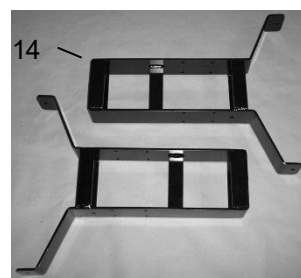
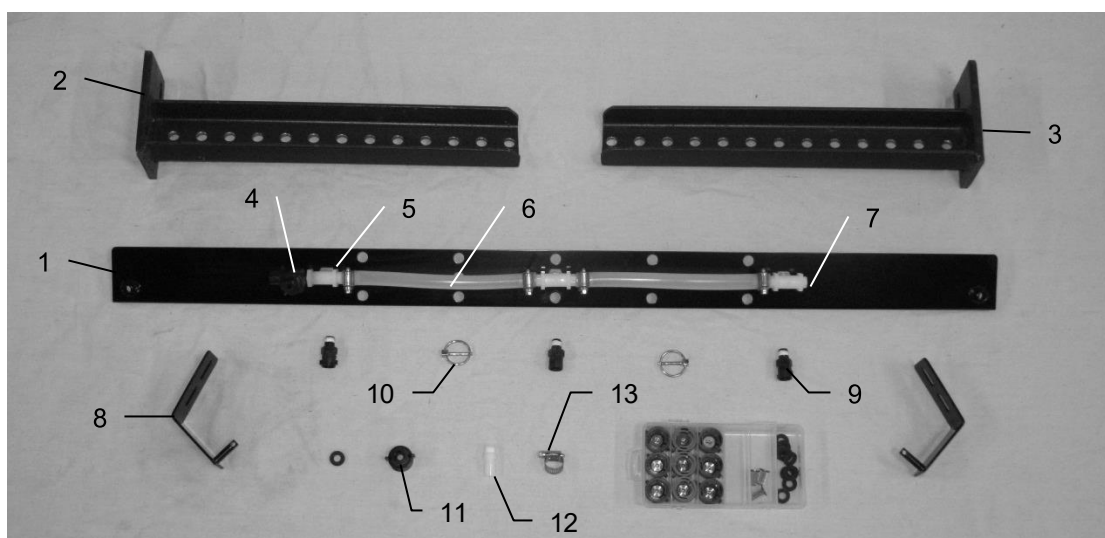
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
14	Strainer	004-1203-100	2
15	Rubber Washer	004-1207W	6
16	Nozzle Holder	001-4703R	1
17	5/16" U-bolt	001-4714UBS	4
18	Jiffy Clips	008-9009	2
19	Spacer	001-4703NS	2
20	Nozzle Mount	001-4714J	2
21	Saddle Leg	001-4703B	2
22	Right Bracket	001-4703DR	1
23	Left Bracket	001-4703DL	1

Tip Kit Complete (11-15) 030-9009
 Spray Shield Only 030-4615-SO
 Shield Mount Kit (16) SMK-4516
 Tank Mount Kit (21-23) TMK-4504

Complete Assembly 030-4517

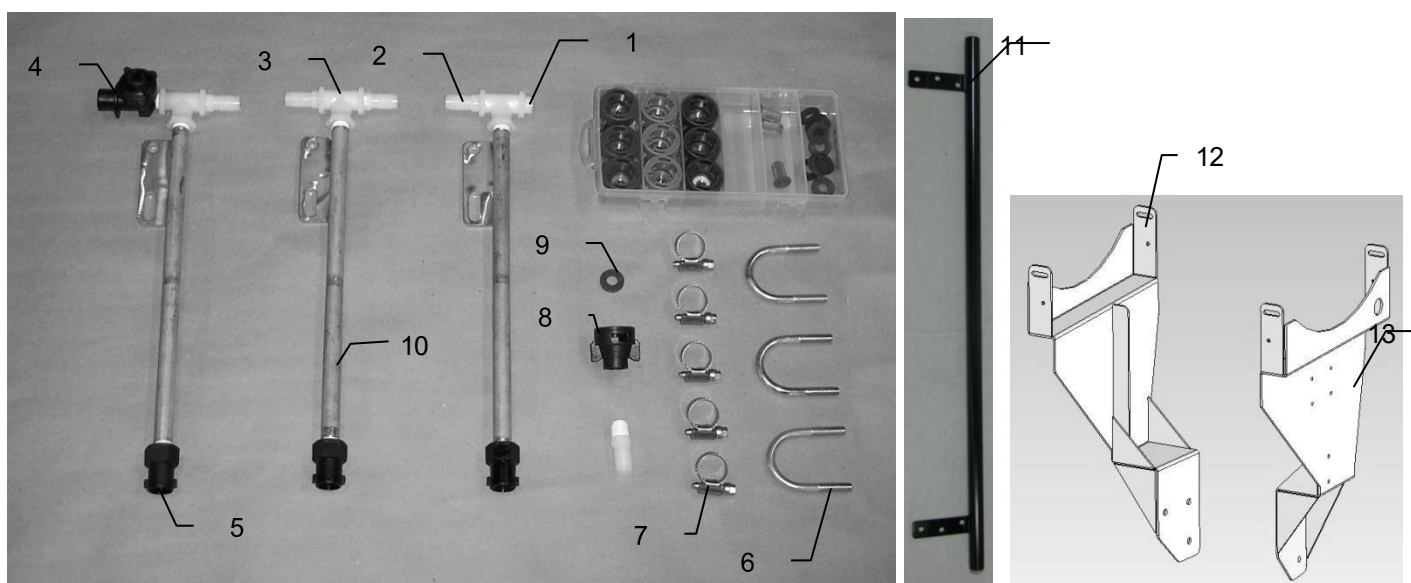


Model 4523 Installation Kit



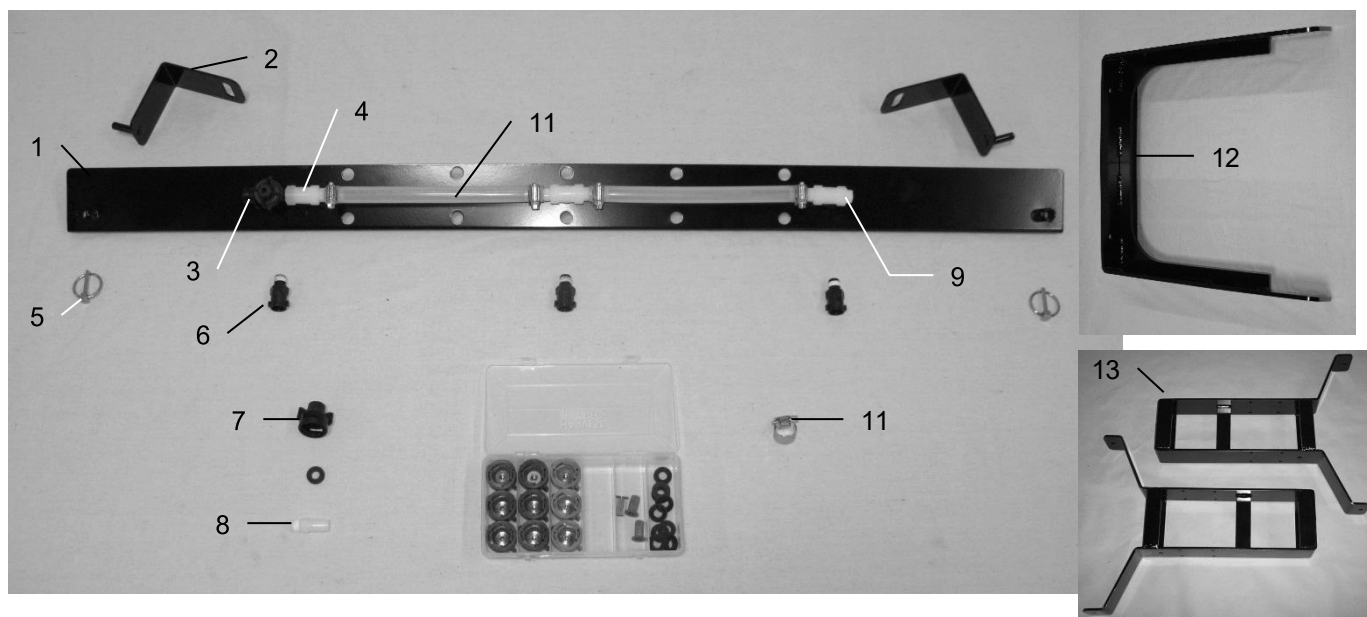
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4704G	1	Tip Kit (Complete)	030-9002	1
2	Support leg right	001-4704JR	1	Tip Kit Includes:		
3	Support leg left	001-4704JL	1	Plastic Box	008-9000	1
4	Check valve	004-1207V	1	Red Cap	004-1207B	3
5	Tee	003-TT14	3	Outside Tip (Red Set)	004-650050-SS	2
6	Hose	002-9001	2	Inside Tip (Red Set)	004-XR11001VS	1
7	Plug	003-F14	1	Green Cap	004-1207A	3
8	Shield hanger	001-4704H	2	Outside Tip (Green Set)	004-6501-SS	2
9	Nozzle body	004-4710	3	Inside Tip (Green Set)	004-XR110015VS	1
10	Lynch pin	008-4576	2	Blue Cap	004-1207C	3
11	Coupler	004-1207H	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Straight fitting	003-A1412	5	Inside Tip (Blue Set)	004-XR11002VS	1
13	Hose clamp	003-9003	5	Washer	004-1207W	9
14	Saddle legs	004-4703B	2	Tip Strainer	004-1203-100	3
				Spray Shield (1-13, tip kit)	030-4523-SO	
				Tank Mount Kit (14)	TMK-4523	
				Complete Assembly	030-4523	

Model 4524 Installation Kit



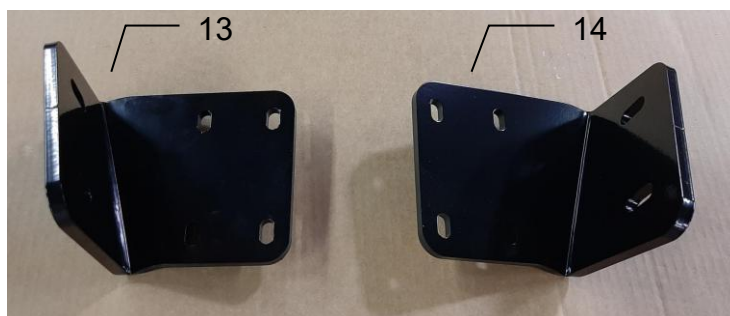
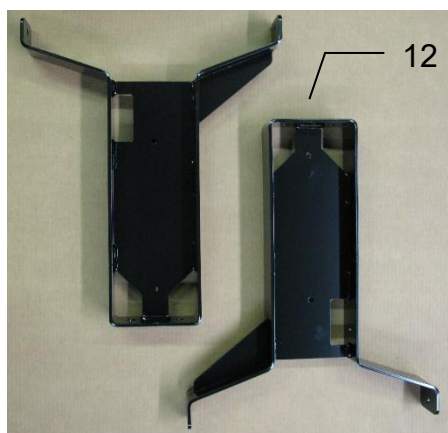
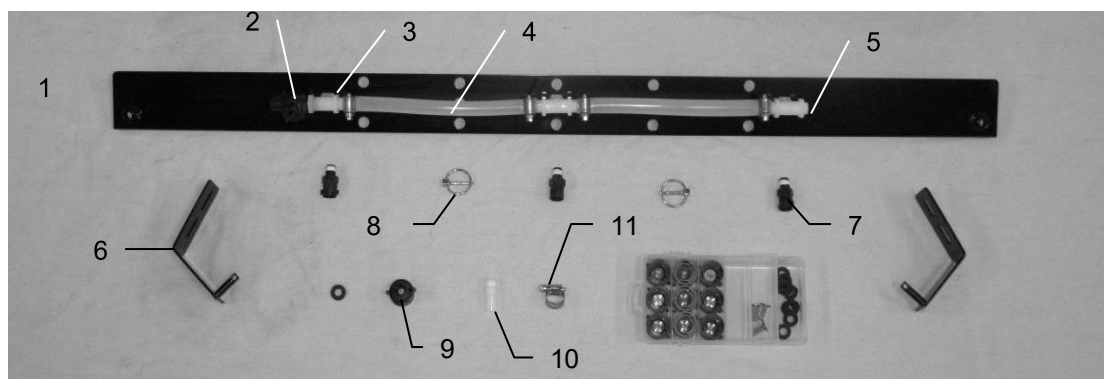
Ref	Description	Part#	Qty	Description	Part#	Qty
1	Plug	003-F14	1	Tip Kit (Complete)	030-9002	1
2	Straight fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Check valve	004-1207V	1	Red Cap	004-1207B	3
5	Female coupler	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	U bolt	001-4714UBS	3	Inside Tip (Red Set)	004-XR11001VS	1
7	Hose clamp	003-9002	5	Green Cap	004-1207A	3
8	Female disconnect	004-1207H	1	Outside Tip (Green Set)	004-6501-SS	2
9	Washer	004-1207W	1	Inside Tip (Green Set)	004-XR110015VS	1
10	Nozzle tube	001-4714	3	Blue Cap	004-1207C	3
11	Nozzle holder	001-4703T	1	Outside Tip (Blue Set)	004-6502-SS	2
12	Right leg	001-4703K	1	Inside Tip (Blue Set)	004-XR11002VS	1
13	Left leg	001-4703L	1	Washer	004-1207W	9
				Tip Strainer	004-1203-100	3
				Spray Shield (1-10, tip kit)	030-4400C	
				Shield Mount Kit (11)	SMK-4524	
				Tank Mount Kit	TMK-4508	
				Complete Assembly	030-4524	

Model 4526 Installation Kit



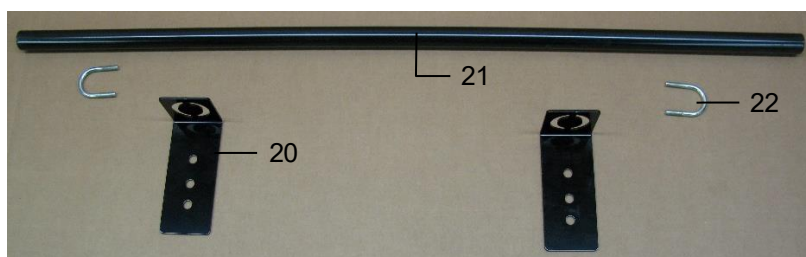
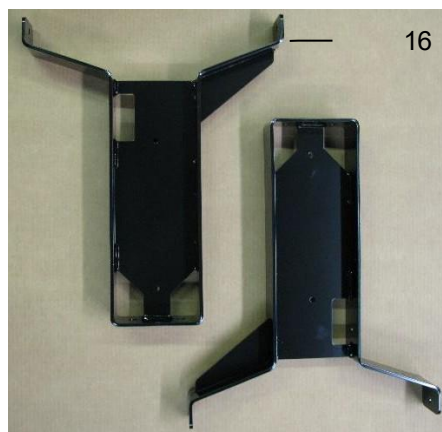
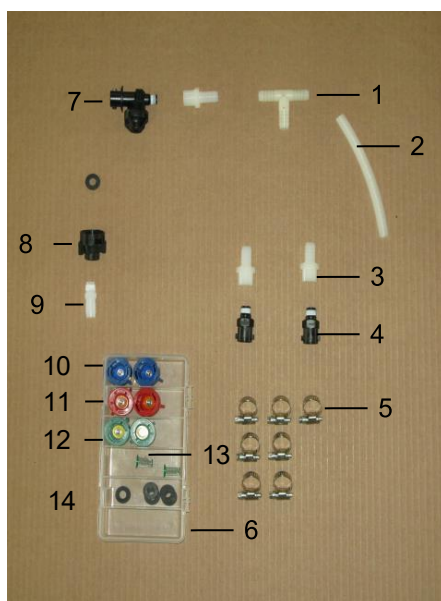
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4704G	1	Tip Kit (Complete)	030-9002	1
2	Shield hanger	001-4704MC	2	Tip Kit Includes:		
3	Check valve	004-1207V	1	Plastic Box	008-9000	1
4	Tee	003-TT14	3	Red Cap	004-1207B	3
5	Lynch pin	008-4576	2	Outside Tip (Red Set)	004-650050-SS	2
6	Nozzle body	004-4710	3	Inside Tip (Red Set)	004-XR11001VS	1
7	Coupler	004-1207H	1	Green Cap	004-1207A	3
8	Straight fitting	003-A1412	5	Outside Tip (Green Set)	004-6501-SS	2
9	Plug	003-F14	1	Inside Tip (Green Set)	004-XR110015VS	1
10	Hose clamp	003-9003	5	Blue Cap	004-1207C	3
11	Hose	002-9001	2	Outside Tip (Blue Set)	004-6502-SS	2
12	Mounting bracket	001-4704MA	1	Inside Tip (Blue Set)	004-XR11002VS	1
13	Saddle legs	001-4703B	2	Washer	004-1207W	9
				Tip Strainer	004-1203-100	3
				Spray Shield (1-11, tip kit)	030-4526-SO	
				Tank Mount Kit	TMK-4526	
				Complete Assembly	030-4526	

Model 4531 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	001-4704G	1	Tip Kit (Complete)	030-9002	1
2	Check valve	004-1207V	1	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Hose	002-9001	2	Red Cap	004-1207B	3
5	Plug	003-F14	1	Outside Tip (Red Set)	004-650050-SS	2
6	Shield hanger	001-4704H	2	Inside Tip (Red Set)	004-XR11001VS	1
7	Nozzle body	004-4710	3	Green Cap	004-1207A	3
8	Lynch pin	008-4576	2	Outside Tip (Green Set)	004-6501-SS	2
9	Coupler	004-1207H	1	Inside Tip (Green Set)	004-XR110015VS	1
10	Straight fitting	003-A1412	5	Blue Cap	004-1207C	3
11	Hose clamp	003-9003	5	Outside Tip (Blue Set)	004-6502-SS	2
12	Saddle legs	004-4703B	2	Inside Tip (Blue Set)	004-XR11002VS	1
13	Left leg support	001-ACX2873560	1	Washer	004-1207W	9
14	Rt. Leg support	001-ACX2873280	1	Tip Strainer	004-1203-100	3
				Spray Shield Only (1-11, tip kit)	030-4523-SO	
				Tank Mount Kit (12-14)	TMK-4531	
				Complete Assembly	030-4531	

Model 4538 Installation Kit

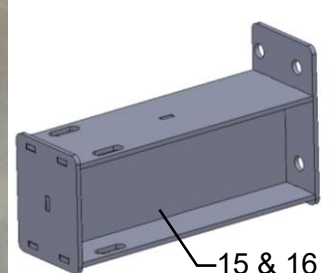
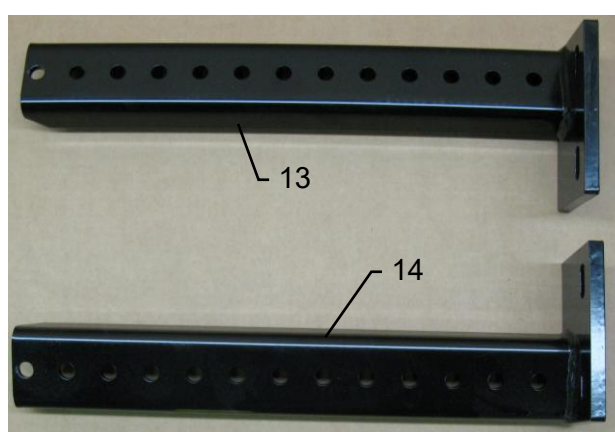
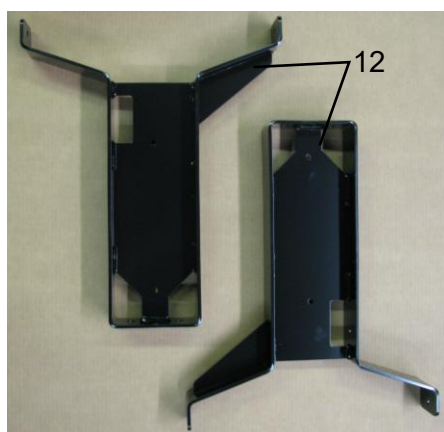
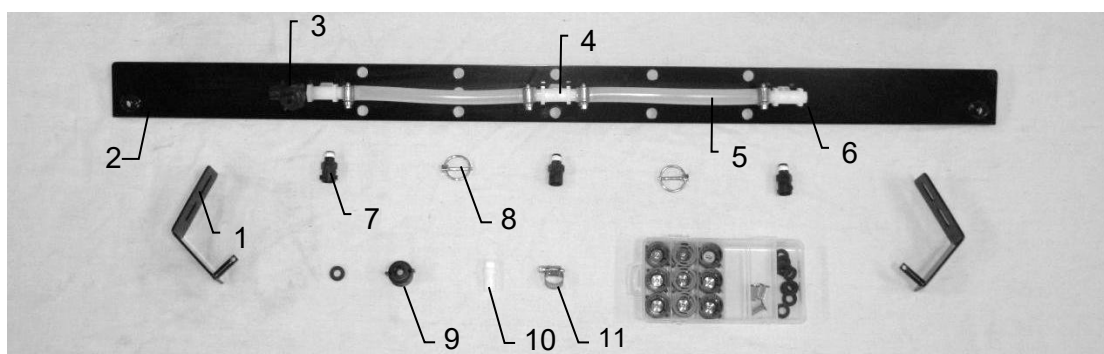


Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Tee	003-T1212	1	16	Tank Leg – Long	001-4703B	2
2	Hose	002-9001	2 ft	17	Side Support	001-4704MA	2
3	Fitting	003-A1412F	3	18	Brace Support	001-4704MDJ	2
4	Fitting	004-4710	2	19	Top Support	001-4704MEJ	1
5	Hose Clamps	003-9003	5				
6	Plano Box	008-9000	1	20	Nozzle Mount	001-4703TP	2
7	Check Valve	004-1207V	1	21	Tube Holder	001-4703TH	1
8	Coupler	004-1207H	1	22	U-bolt	001-4714UBS	6
9	Fitting	003-A1412	1				
10	Cap-blue	004-1207C	2		Tip Kit (6, 10-14)	030-9009	
	Tip- High	004-XR11003VS	2		Spray Assembly (1-13, 15)	030-4538-SO	
11	Cap- Red	004-1207B	2		Shield Mount Kit (19-21)	SMK-UNIV-PIPE	
	Tip- Low	004-XR11001VS	2		Tank Mount Kit (14, 16-18)	TMK-4538	
12	Cap- Green	004-1207A	2				
	Tip- Med	004-XR11002VS	2				
13	Tip Strainer	004-1203-100	2				
14	Rubber Washer	004-1207W	6				
15	Nozzle Holder	001-4714JS	2				

Complete Assembly

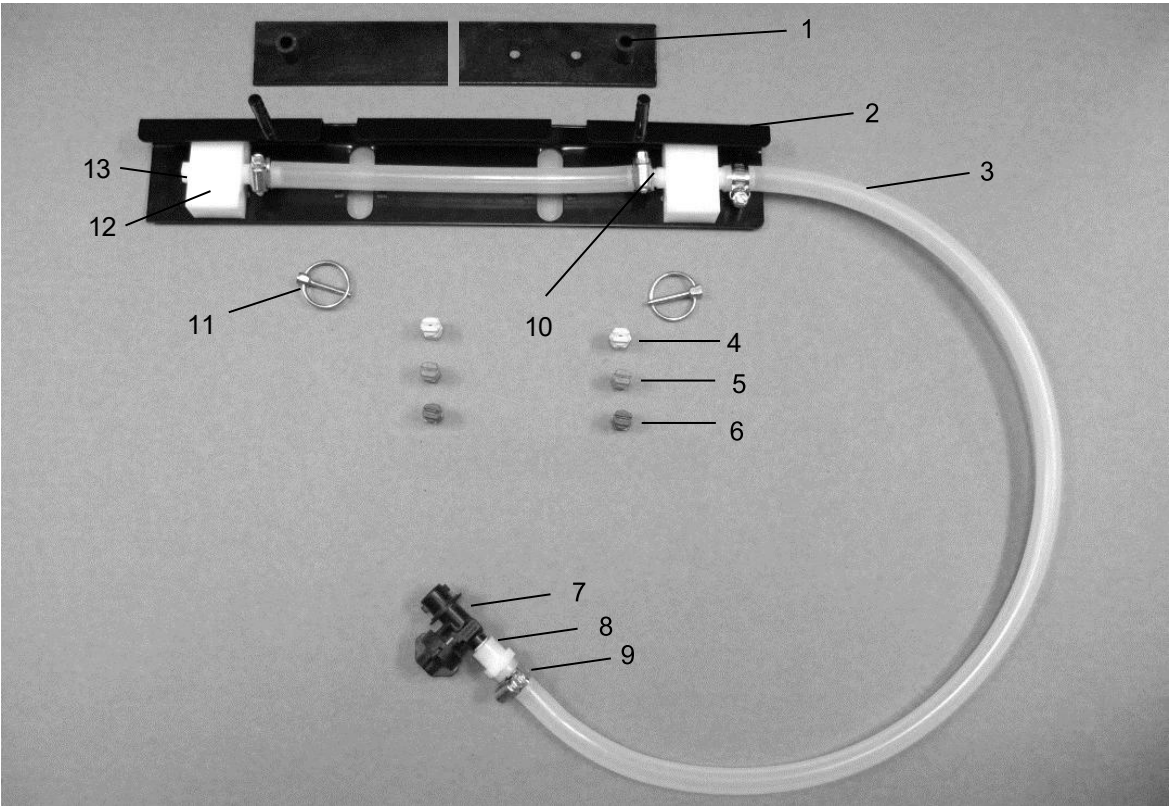
030-4538

Model 4543 Installation Kit

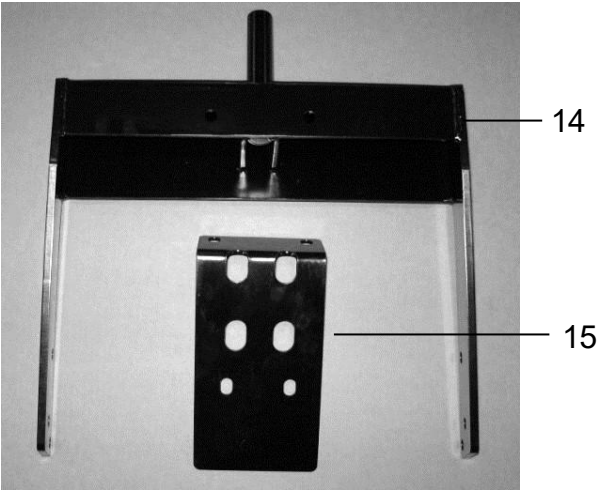


Ref	Description	Part #	Qty	Description	Part #	Qty
1	Shield hanger	001-4704H	2	Tip Kit (Complete)	030-9002	1
2	Spray shield	001-4704G	1	Tip Kit Includes:		
3	Check valve	004-1207V	1	Plastic Box	008-9000	1
4	Tee	003-TT14	3	Red Cap	004-1207B	3
5	Hose	002-9001	2	Outside Tip (Red Set)	004-650050-SS	2
6	Plug	003-F14	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Nozzle body	004-4710	3	Green Cap	004-1207A	3
8	Lynch pin	008-4576	2	Outside Tip (Green Set)	004-6501-SS	2
9	Coupler	004-1207H	1	Inside Tip (Green Set)	004-XR110015VS	1
10	Straight fitting	003-A1412	5	Blue Cap	004-1207C	3
11	Hose clamp	003-9003	5	Outside Tip (Blue Set)	004-6502-SS	2
12	Tank leg long	004-4703B	2	Inside Tip (Blue Set)	004-XR11002VS	1
13	Support leg right	001-4704JR	1	Rubber Washer	004-1207W	9
14	Support leg left	001-4704JL	1	Tip Strainer	004-1203-100	3
NP	Spacer plate	001-6055VES	2			
15	Ext. bracket RT	001-6055VER	1	Spray Shield (1-11, tip kit)	030-4523-SO	
16	Ext. bracket LT	001-6055VEL	1	Tank Mount Kit (12-18)	TMK-4543	
				Complete Assembly	030-4543	

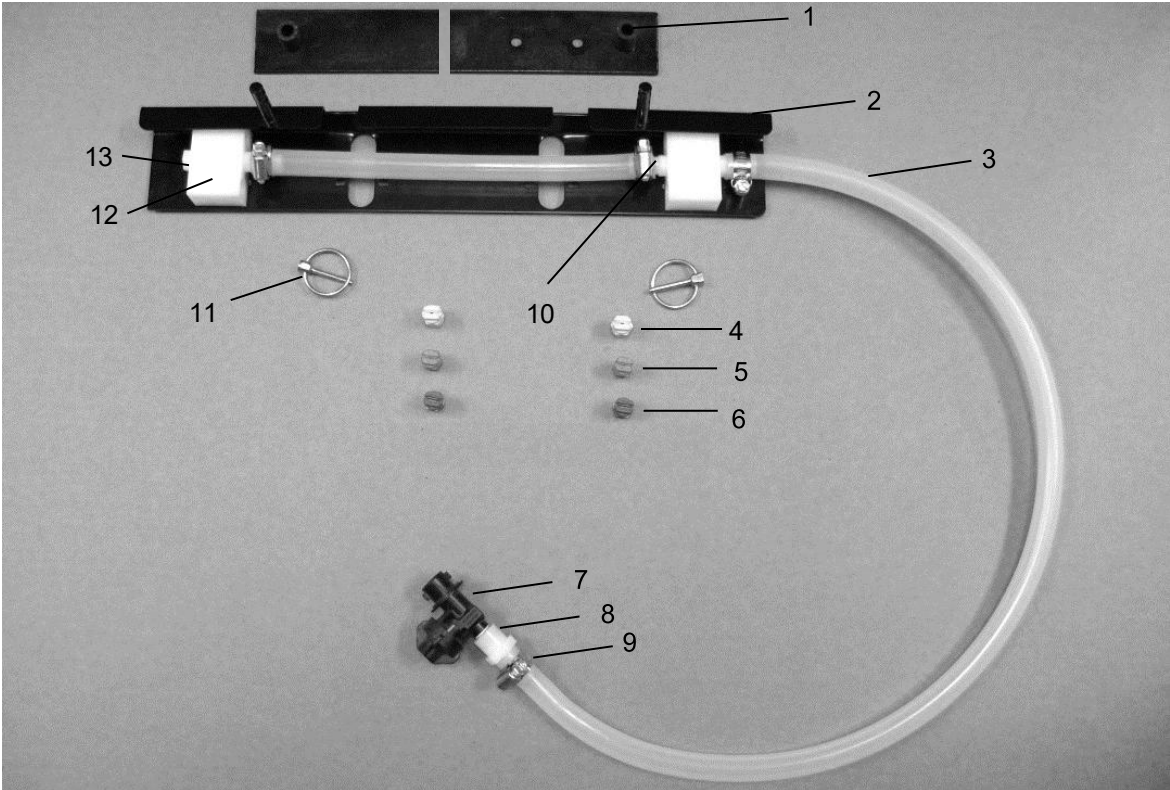
Model 4546 Installation Kit



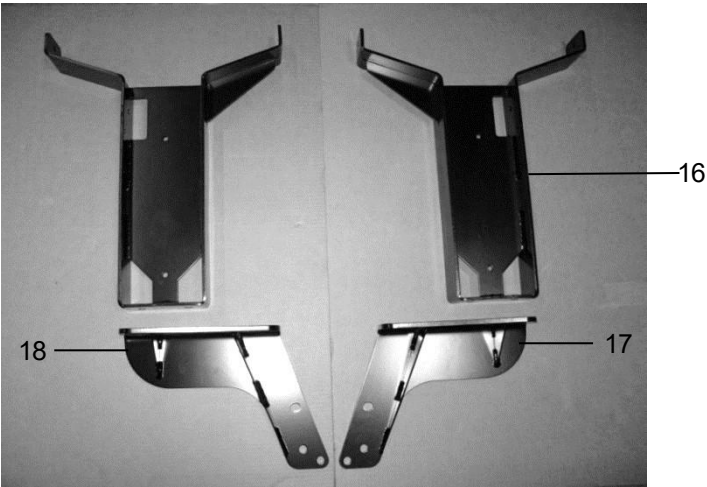
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Holder	001-4435NCX2	2	11	Lynch Pin	008-4576	2
2	Shield	001-4435NSX	1	12	Manifold Block	001-4435NSB	2
3	Hose-1/2"	002-9001	4 ft	13	Fitting	003-F14	1
4	Tip- Low	004-T8001-PT	2	14	Mounting Bracket	001-4411	1
5	Tip- Med	004-T8002-PT	2	15	Support	001-4411A	1
6	Tip- High	004-T8003-PT	2	NP	Strainer	004-1203-100	1
7	Check Valve	004-1207V	1	NP	Clamping UBolt 2"	001-4714UBX	1
8	Fitting	003-A1412F	1	NP	Female 1/4" Disconnect	004-1207H	1
9	Hose Clamp	003-9003	4	NP	Mini Plano Box	008-9001	1
10	Fitting	003-A1412	4				
Tank Mount Kit (14-15)						TMK-4483	
Complete Assembly						030-4546	



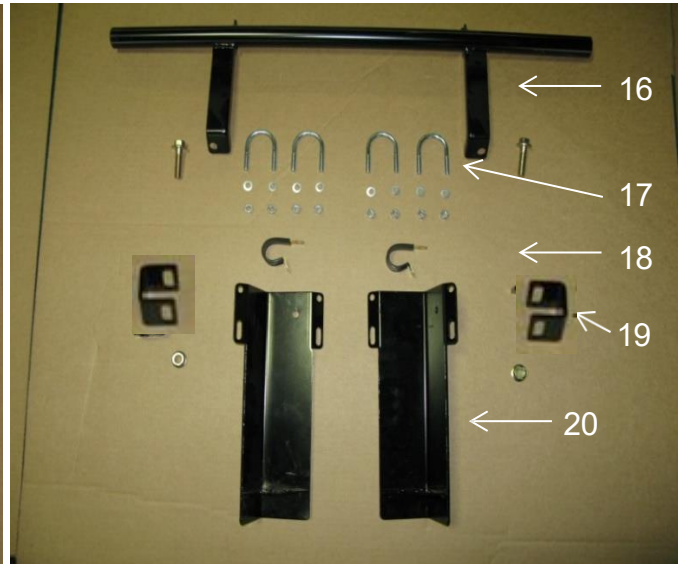
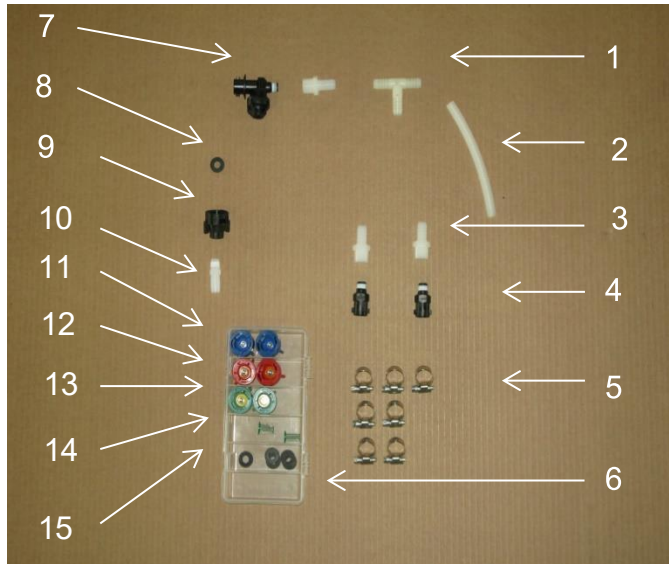
Model 4547 Installation Kit



Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Holder	001-4435NCX2	2	12	Manifold Block	001-4435NSB	2
2	Shield	001-4435NSX	1	13	Fitting	003-F14	1
3	Hose-1/2"	002-9001	4 ft	14	Mounting Bracket	001-4411	1
4	Tip- Low	004-T8001-PT	2	15	Support	001-4411A	1
5	Tip- Med	004-T8002-PT	2	16	Saddle Leg	001-4703B	2
6	Tip- High	004-T8003-PT	2	17	Right Bracket	001-4703DR	1
7	Check Valve	004-1207V	1	18	Left Bracket	001-4703DL	1
8	Fitting	003-A1412F	1	NP	Strainer	004-1203-100	1
9	Hose Clamp	003-9003	4	NP	Female 1/4" Disconnect	004-1207H	1
10	Fitting	003-A1412	4	NP	Mini Plano Box	009-9001	1
11	Lynch Pin	008-4576	2				
NP	Clamping U-Bolt	001-4714UBX	2				
					Tank Mount Kit (16-18)	TMK-4504	
					Complete Assembly	030-4547	



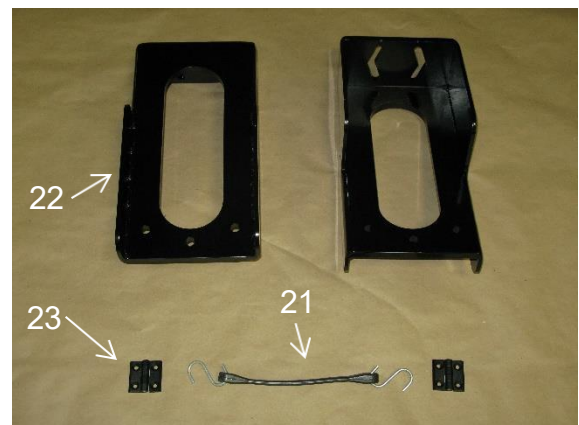
Model 4549 Installation Kit



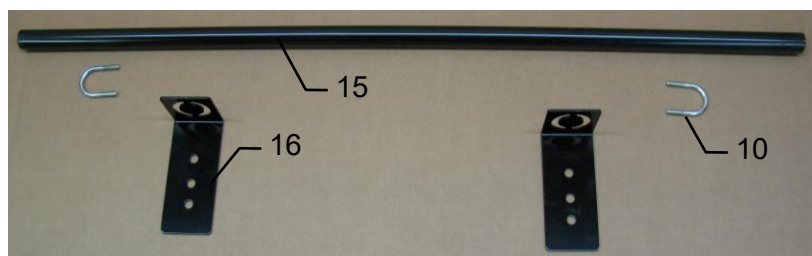
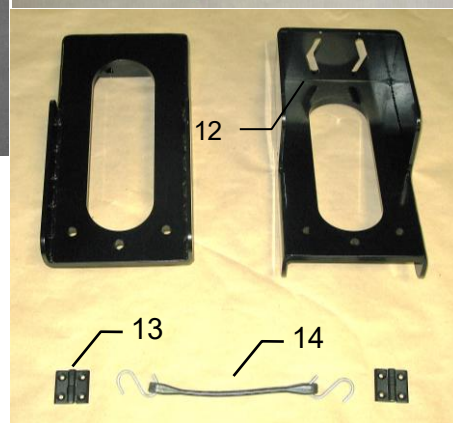
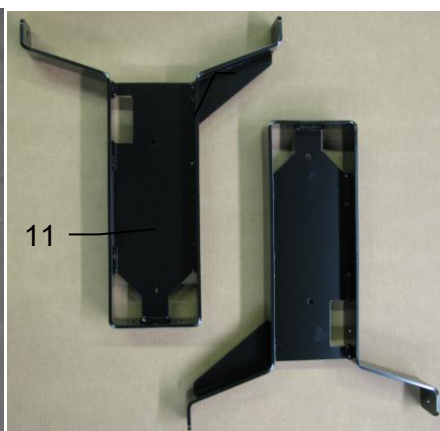
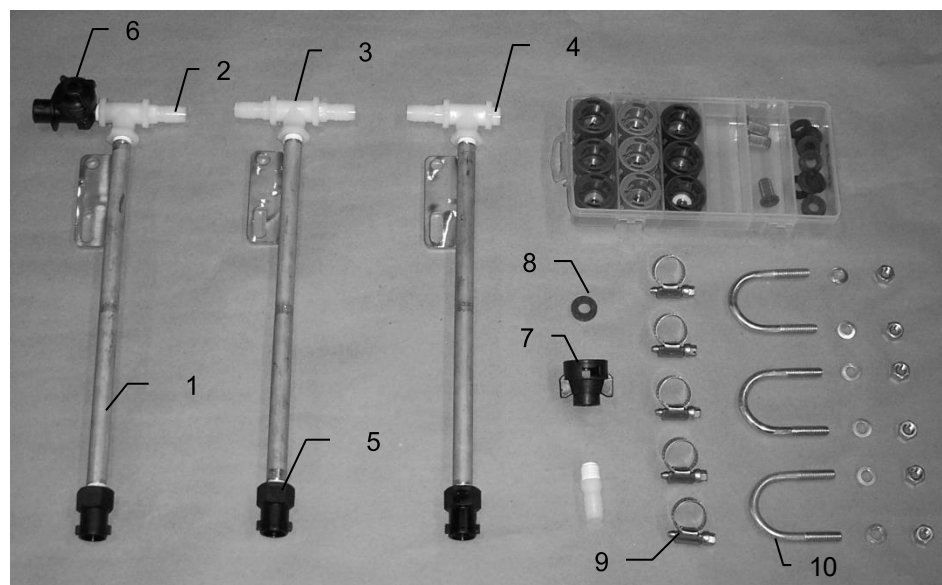
Ref	Description	Part #	Qty	Ref	Description	Part #	Qty
1	Tee	003-T1212	1	14	Strainer	004-1203-100	2
2	Hose	002-9001	4 ft	15	Rubber Washer	004-1207W	6
3	Fitting	003-A1412F	3	16	Nozzle Holder	001-4703R	1
4	Fitting	004-4710	2	17	5/16" U-bolt	001-4714UBS	4
5	Hose Clamps	003-9003	7	18	Jiffy Clips	008-9009	2
6	PLANO BOX	008-9000	1	19	Spacer	001-4703NV	2
7	Check Valve	004-1207V	1	20	Nozzle Mount	001-4714J	2
8	Rubber Washer	004-1207W	6	21	Saddle Leg	001-4703B	2
9	Coupler	004-1207H	1	22	Mounting Bracket	001-4703F	2
10	Fitting	003-A1412	1	23	Hinge	001-4703VHG	2
11	Cap- Blue	004-1207C	2	24	Latch	001-4703CL	1
12	Cap- Red	004-1207B	2				
13	Cap- Green	004-1207A	2				
11a	Tip- High	004-XR11003VS	2				
12a	Tip- Low	004-XR11001VS	2				
13a	Tip- Med	004-XR11002VS	2				

Tip Kit (11-15) 030-9009
 Tank Mount Kit (20-24) TMK-4549
 Shield Mount Kit (16,19) SMK-4549

Complete Assembly 030-4549



Model 4555 Installation Kit



Ref	Description	Part #	Qty	Description	Part#	Qty
1	Nozzle Tube	001-4714	3	Tip Kit (Complete)	030-9002	1
2	Straight Fitting	003-A1412	5	Tip Kit Includes:		
3	Tee	003-TT14	3	Plastic Box	008-9000	1
4	Plug	003-F14	1	Red Cap	004-1207B	3
5	Nozzle Body	004-1207G	3	Outside Tip (Red Set)	004-650050-SS	2
6	Check Valve	004-1207V	1	Inside Tip (Red Set)	004-XR11001VS	1
7	Female Disconnect	004-1207H	1	Green Cap	004-1207A	3
8	Washer	004-1207W	1	Outside Tip (Green Set)	004-6501-SS	2
9	Hose lamp	003-9003	5	Inside Tip (Green Set)	004-XR110015VS	1
10	U-Bolt	001-4714UBS	3	Blue Cap	004-1207C	3
11	Tank Leg Long	001-4703B	2	Outside Tip (Blue Set)	004-6502-SS	2
12	Mounting Bracket	001-4703F	2	Inside Tip (Blue Set)	004-XR11002VS	1
13	Hinge	001-4703VHG	2	Rubber Washer	004-1207W	9
14	Latch	001-4703CL	1	Tip Strainer	004-1203-100	3
15	Nozzle Mount Pipe	001-4703TP	1			
16	Pipe Mount Bracket	001-4703TH	2			
NP	Rubber Bumper	008-4555	2			
				Spray Assembly (1-10, tip kit)	030-4400C	
				Nozzle Tube Mount Kit (10,15-16)	SMK-UNIV-PIPE	
				Tank Mount Kit (11,12)	TMK-4549	

Complete Assembly

030-4555

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, Inc. 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, Inc.

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, Inc. 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, Inc. 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, Inc. 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, Inc. will not affect our ability to obtain materials or manufacture necessary replacement parts.

Harvest Tec, Inc. 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

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