

Installation Manual

Model 596 ***100 & 110 Gallon Preservative Applicator***



*Equipment and Products
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Introduction

Read this manual carefully to ensure correct steps are done to attach the applicator to the baler. This applicator is designed to apply Harvest Tec buffered propionic acid. The model 596 base kit includes the following parts: Tank, Frame, Pumps, Hose, Baler Mounted Processor, Touchscreen Display, Moisture Sensors, and Miscellaneous Hardware. The applicator can be installed on most large square balers with the proper installation kit. Before installing the unit on the baler, make sure you have the proper installation kit. (See the chart below.) If you are unsure about your installation kit, contact your local authorized dealer for specifications. For your convenience we have included a parts break down for the model 596 applicator.

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

Attention:

For kits on 2010 Krone HDP balers Krone part number 20 073 194 0 must be ordered to mount the starwheels.

Please see attached supplemental manual for further instructions.

Installation kit reference chart

BALER MAKE	MODEL	INSTALL KIT
AGCO Hesston	4750-4755	030-4490B
	4760	030-4494B
	4790	030-4492B
	4900-4910	030-4491B
	4760 roto-cutter	030-4500B
	4790 roto-cutter	030-4501B
	7430	030-4494B
	7430 roto-cutter	030-4500B
	7433-7444	030-4518B
	7433-7434 roto-cutter	030-4519B
	2150 – 2190	030-4518B
	2150 – 2190 roto-cutter	030-4519B
	2150 – 2190 packer cutter	030-4527B
Case IH	8570-8575	030-4490B
	8585	030-4492B
	8580-8590	030-4491B
	LBX331-332 STD or packer	030-4495B
	LBX431-432 STD or packer	030-4495B
	LBX331-332 roto-cutter	030-4497B
	LBX431-432 roto-cutter	030-4497B
	LB333 – 433 STD or packer	030-4495B
	LB333-433 roto-cutter	030-4497B
	LB 433 STD or packer (2011-2012)	030-4528B
	LB 433 roto-cuter (2011-2012)	030-4529B
Challenger	LB33	030-4494B
	LB34	030-4492B
	LB44	030-4491B
	LB33B – LB44B	030-4518B
	LB33B – LB34B roto-cutter	030-4519B
	LB33B – LB34B packer cutter	030-4527B
Krone	VFS 88	030-4498B
	VFS 88 cutter	030-4495B
	VFS 128	030-4498B
	VFS 128 cutter	030-4495B
	890-12130 XC	030-4514B
	890-12130	030-4515B

Tools Needed:

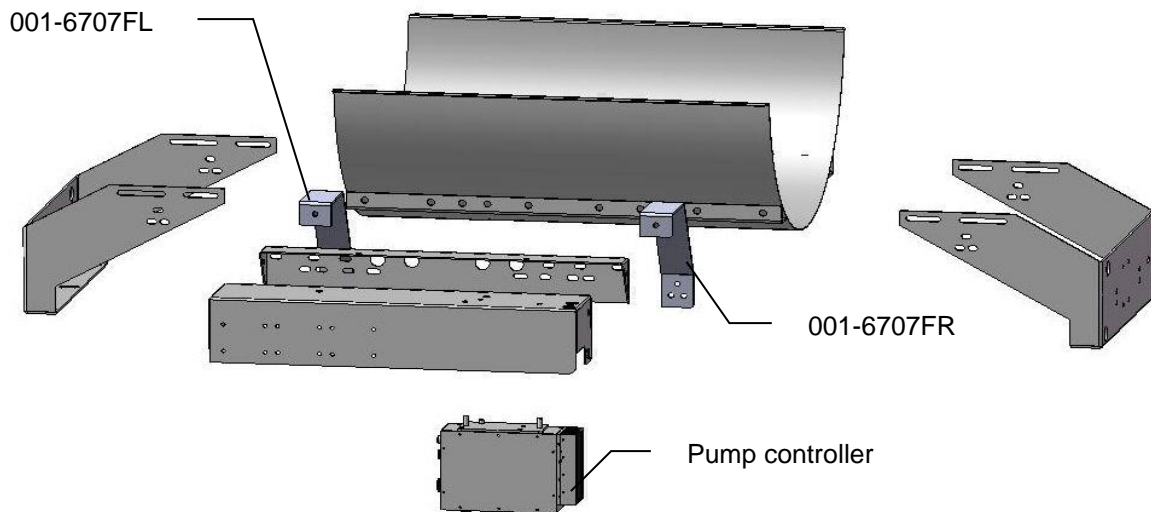
- Standard wrench set
- Electric drill and bits
- Side cutter
- Crescent wrench
- Standard screwdriver
- Standard nut driver set
- Standard socket set
- Hammer
- Metal cutting tools
- Hose cutter
- Center punch

Kuhn	LSB 870 – 890	030-4510B
	LSB 1270 – 1290	030-4511B
	Omni-cut	030-4525B
Claas	2200/1200/3200/3300/3400	030-4499B
	2100	030-4509B
Massey Ferguson	2050	030-4494B
	2050 roto-cutter	030-4500B
	2150 – 2190	030-4518B
	2150 – 2170 roto-cutter	030-4519B
	2150 – 2190 packer cutter	030-4527B
	2170XD with roto-cutter	030-4530B
New Idea	7233	030-4490B
	7234	030-4492B
	7244	030-4491B
	7333	030-4494B
New Holland	590-BB9080 STD or packer	030-4495B
	BB940-BB9080 roto-cutter	030-4497B
	BB9080 STD or packer (2011-2012)	030-4528B
	BB9080 roto-cutter (2011-2012)	030-4529B
Taarup	6570 – 6570 OC	030-4510B
	6670 – 6690 OC	030-4511B
Vermeer	SQ2731	030-4438B
	SQ3347	030-4439B
Vicon	LB 8200	030-4510B
	LB 12200	030-4511B

Installation of applicator

1. Installation of pump manifold

Hesston, New Idea, Challenger, Massey Ferguson, and Case 8570, 8575, 8580, 8585, 8590 balers:



For 3 X 3 balers only

Install both saddle legs (001-6707C) onto the saddle (001-6707A) with 3/8 x 1" Bolts, locks and flat washers. Note: the slots in the legs will attach to the second and fourth weld nuts in from each end, of the saddle, on both sides.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the outside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten bolts until mounted on the baler
2. Mount the pump plate support legs (001-6707FL & 001-6707FR) to the saddle legs using six 3/8" x 1 1/4" bolts, locks, flats, and nuts. Note: this will be the side that is opposite of the "V" notch that is in the sump cut out of the saddle
3. Attach the pump plate mounting bracket (001-4646C) to the pump plate support legs with two 3/8" x 1 1/4" bolts, locks, flats, and nuts.
4. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

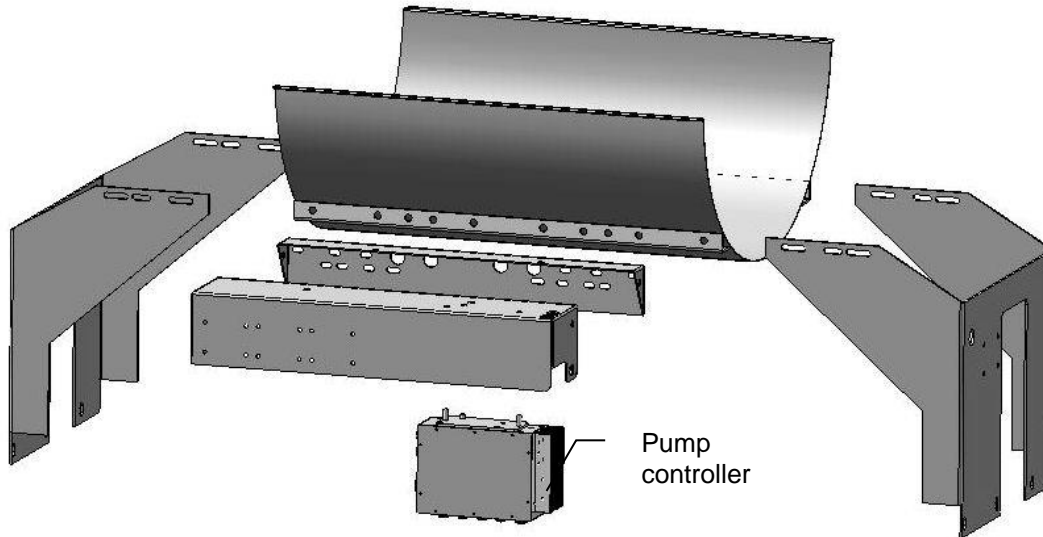
For 3 X 4 and 4 x 4 balers only

Install both saddle legs (001-6707C) onto the saddle (001-6707A) with 3/8 x 1" Bolts, locks and flat washers. Note: the slots in the legs will attach to the first and second weld nuts in from each end, of the saddle, on both sides.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the outside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten down bolts until mounted on the baler.
2. Mount the pump plate support legs (001-6707FL & 001-6707FR) to the saddle legs using six 3/8" x 1 1/4" bolts, locks, flats, and nuts. Note: this will be the side that is opposite of the "V" notch that is in the sump cut out of the saddle
3. Attach the pump plate mounting bracket (001-4646C) to the pump plate support legs with two 3/8" x 1 1/4" bolts, locks, flats, and nuts.
4. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps

Case & New Holland



For 3 X 3 balers only

Install both saddle legs (001-6707BL & 001-6707BR) onto the saddle (001-6707A) with 3/8 x 1" Bolts, locks and flat washers. The mounting slots in the legs will attach to the second and fourth weld nuts in from each end, of the saddle, on both sides. Note: There is a "V" shape cut out in the sump area of the saddle. This side of the saddle should be attached to the side of the legs that have a narrower profile.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the inside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten down bolts until unit is mounted on the baler
2. Connect the pump plate mounting bracket (001-4646C) to the side of the saddle that has the wider profile to the legs. Note: you will have to remove the two outside bolts and replace them with two 3/8" x 1 1/4" bolts.
3. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

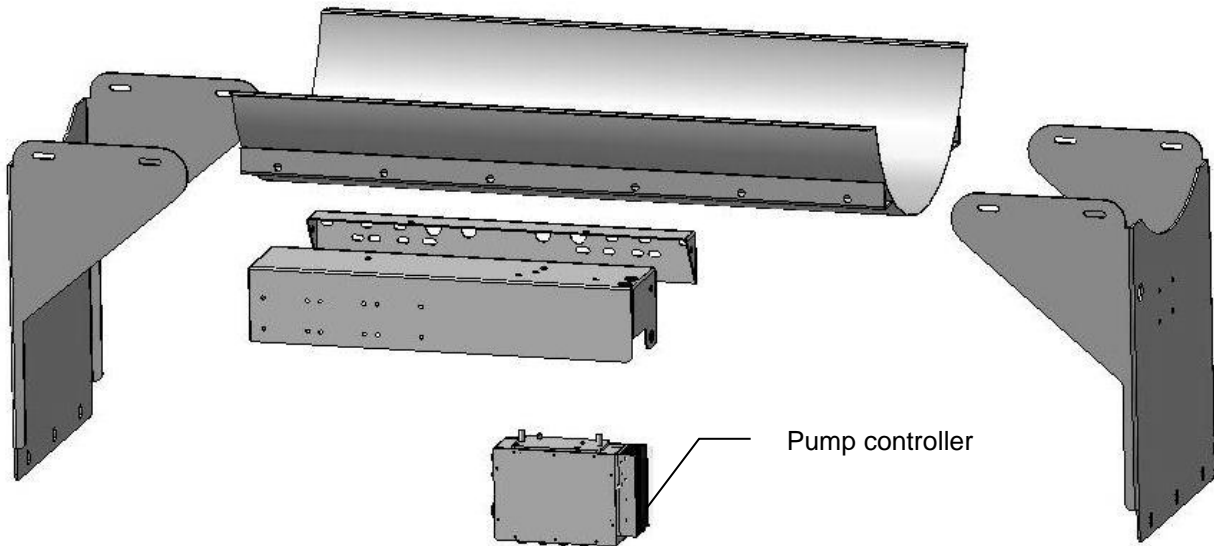
For 3 X 4 balers only

Install both saddle legs (001-6707DL & 001-6707DR) onto the saddle (001-6707A) with 3/8 x 1" Bolts, locks and flat washers. The mounting slots in the legs will attach to the first and second weld nuts in from each end, of the saddle, on both sides. Note: There is a "V" shape cut out in the sump area of the saddle. This side of the saddle should be attached to the side of the legs that have a narrower profile.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the inside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten down bolts until unit is mounted on the baler
2. Connect the pump plate mounting bracket (001-4646C) to the side of the saddle that has the wider profile to the legs. Note: you will have to remove the two inside bolts and replace them with two 3/8" x 1 1/4" bolts.
3. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps

Claas, John Deere, Vermeer, and Krone balers



For 3 X 3 balers only

Install both saddle legs (001-6706V) onto the saddle (001-6706A) with 3/8 x 1" Bolts, locks and flat washers. The mounting slots in the legs will attach to the second and third weld nuts in from each end, of the saddle, on both sides

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the inside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten down bolts until unit is mounted on the baler
2. Connect the pump plate mounting bracket (001-4646C) to the saddle. You will have to remove the two outside bolts and replace them with two 3/8" x 1 1/4" bolts. Note: this will be the side that is opposite of the "V" notch that is in the sump cut out of the saddle. Expect for Krone (see pg 16)
3. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

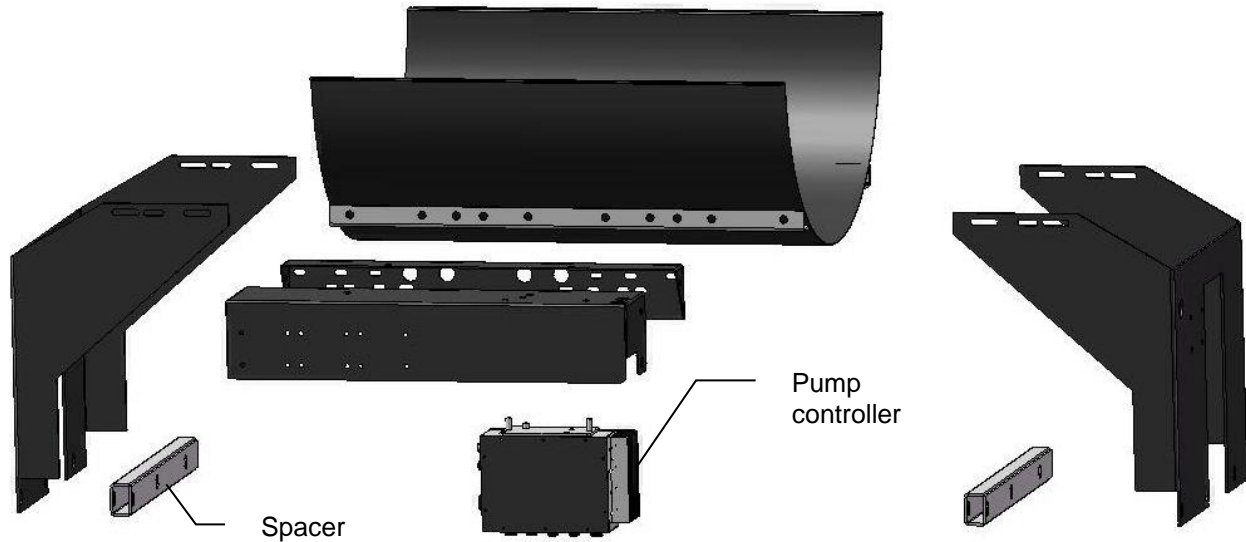
For 3 X 4 and 4 x 4 balers only

Install both saddle legs (001-6706V) onto the saddle (001-6706A) with 3/8 x 1" Bolts, locks and flat washers. The mounting slots in the legs will attach to the first and second weld nuts in from each end, of the saddle, on both sides.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the inside edges will match this dimension. Also try to center the saddle within these dimensions. Do not fully tighten down bolts until unit is mounted on the baler
2. Connect the pump plate mounting bracket (001-4646C) to the saddle. You will have to remove the two inside bolts and replace them with two 3/8" x 1 1/4" bolts. Note: this will be the side that is opposite of the "V" notch that is in the sump cut out of the saddle. Expect for Krone (see pg 16)
3. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts.

The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps

Kuhn, Vicon & Taarup balers



For 3 X 3 balers only

Install both saddle legs (001-6707BL & 001-6707BR) onto the saddle (001-6707A) with 3/8 x 1" Bolts, locks and flat washers. The mounting slots in the legs will attach to the second and fourth weld nuts in from each end, of the saddle, on both sides. Note: There is a "V" shape cut out in the sump area of the saddle. This side of the saddle should be attached to the side of the legs that have a narrower profile.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the inside edges will match this dimension. Also try to center the saddle within these dimensions. The spacers (001-6707BS) will be needed between the saddle legs and frame of the baler. Do not fully tighten down bolts until unit is mounted on the baler
2. Connect the pump plate mounting bracket (001-4646C) to the side of the saddle that has the wider profile to the legs. Note: you will have to remove the two outside bolts and replace them with two 3/8" x 1 1/4" bolts.
3. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

For 3 X 4 balers only

Install both saddle legs (001-6707BL & 001-6707BR) onto the saddle (001-6707A) with 3/8 x 1" Bolts, locks and flat washers. The mounting slots in the legs will attach to the first and second weld nuts in from each end, of the saddle, on both sides. Note: There is a "V" shape cut out in the sump area of the saddle. This side of the saddle should be attached to the side of the legs that have a narrower profile.

1. Once legs and saddle are loosely attached measure the distance from the top outside corners of the bale chamber where the saddle will be attached. Move legs in or out so the inside edges will match this dimension. Also try to center the saddle within these dimensions. The spacers (001-6707BS) will be needed between the saddle legs and frame of the baler. Do not fully tighten down bolts until unit is mounted on the baler
2. Connect the pump plate mounting bracket (001-4646C) to the side of the saddle that has the wider profile to the legs. Note: you will have to remove the two inside bolts and replace them with two 3/8" x 1 1/4" bolts.
3. Attach the pump plate holder (001-4646D) to the pump plate mounting bracket (001-4646C) using four 3/8" x 3/4" flange head bolts

The Pump Controller and pump heads must be pointing down. Failure to mount the pump plate assembly in this specified direction will void all warranty of the Pump Controller and pumps

1. Installation of Precision Information Processor (PIP)

Follow the instructions below to mount the Precision Information Processor (PIP) onto your specific baler model and type. The locations shown are the right twine box (looking at the back of the baler). Mark and drill the four 3/8 holes and install PIP with four 5/16 x 1 bolts, locks, flats and nuts. If your baler is not listed below mount the PIP on the back of the twine box on the right side. Mount the PIP cover over the top of the tip and secure with the hardware.

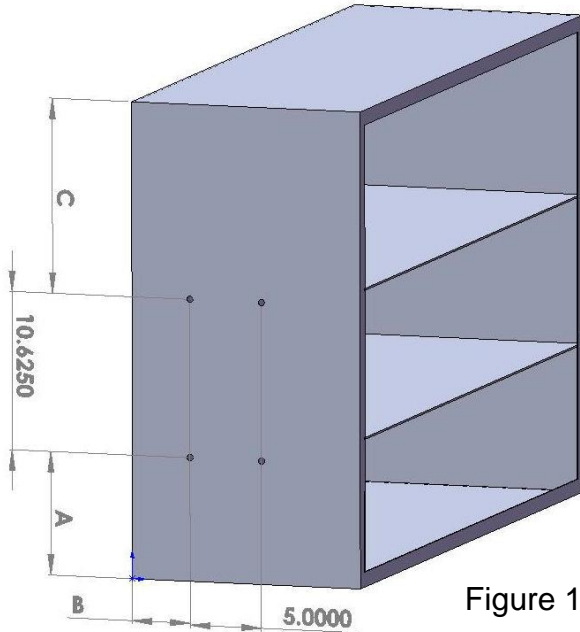


Figure 1

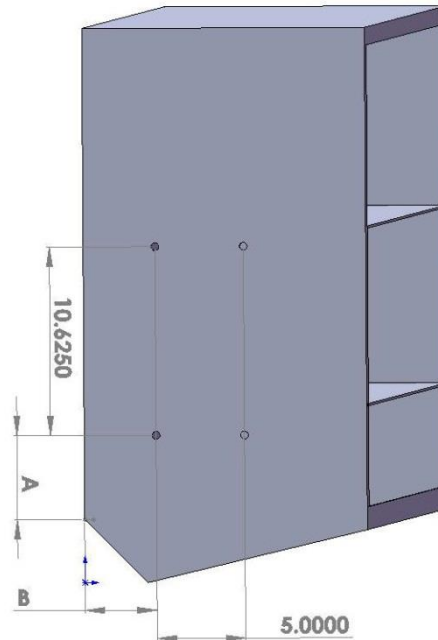


Figure 2

Baler Type	Model number	Figure	A	B	C	Baler Type	Model number	Figure	A	B	C
AGCO Hesston	7433 – 7444 2150 - 2190	2	12"	3"	N/A	Hesston	4790	1	4"	2.5"	N/A
Case IH	LBX 331 – 431	1	4"	2"	N/A		4800-4910	1	16"	2"	N/A
Case IH	LBX 332-432 & LB 333 - 433	1	N/A	2"	2"	John Deere	100	1	18"	6.5"	N/A
Challenger	LB 33B – 44B	2	12"	3"	N/A	Krone	890 - 12130	1	3"	4"	N/A
	LB33	1	2"	2"	N/A	New Holland	590 – BB940	1	4"	2"	N/A
	LB34	1	4"	2.5"	N/A	New Holland	BB940A – 960A & BB9060-BB9080	1	N/A	2"	2"
	LB44	1	16"	2"	N/A	Massey Ferguson	2050	1	2"	2"	N/A
Hesston	4750 – 4755	1	16"	2"	N/A	Massey Ferguson	2150 - 2190	2	12"	3"	N/A
	4760	1	2"	2"	N/A	Claas	2100	1	4"	2"	N/A

3. Installation of tank and star wheels

Use the template located in the back of this manual as a guide for cutting a notch and locating the mounting holes for the star wheels. Carefully mark the location of the star wheel holes using the template and a center punch so the star wheels will run true to the direction of the bales, otherwise, the star wheels may work themselves out of the block, damaging the sensor itself or the bale rate sensors. The star wheels must be mounted so that they are no closer than 3/8" from any metal parts of the baler and come in contact only with the bale. Four 5/16 x 3" allen headed bolts will be used to mount the star wheel block and twine guard to the baler. The bolts must be inserted from the inside of the baler chamber. Use nuts and lock washers to hold the bolts in place before putting on the star wheel block, the block is counter-bored on one side so the block will fit over the nuts. The star wheel block has a plug on one side and a wire grommet on the other side. If there are interference problems with the star wheel wires on one side of the block, exchange the wire grommet with the plug so the wire can exit the block on the other side. Mount the twine guards using the two inner holes on the star wheel block. The twine guard containing the bale rate sensors should be placed on the baler's right side, when looking from the back of the baler.

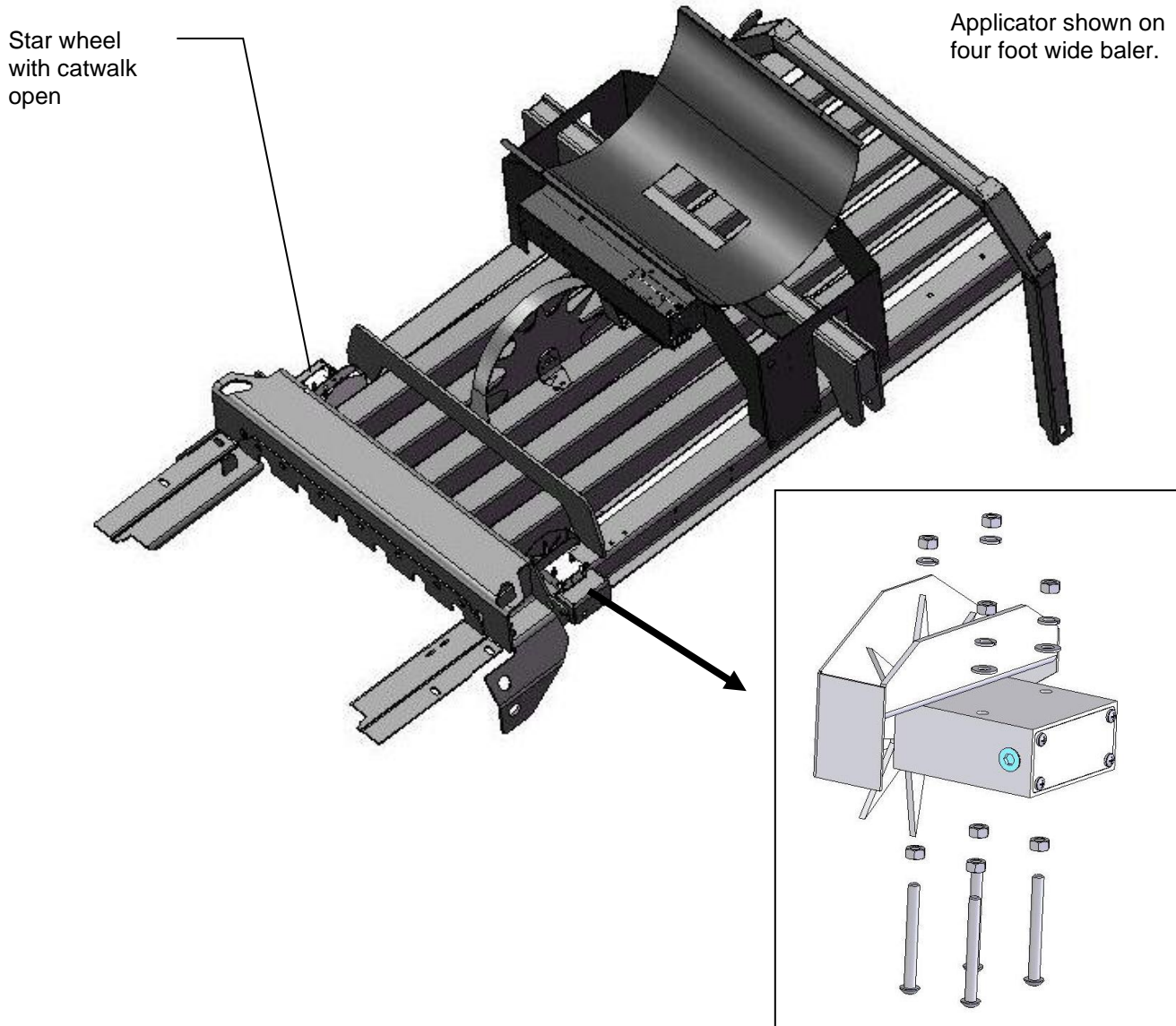
The following pages will contain detailed instructions for your baler. Please refer to the table of contents for you exact listing.

New Holland 590 through BB9080 and Case IH LBX331 through LB 433 balers

Mount the tank legs and saddle on the baler as shown below. The tank legs bolt to the baler with $\frac{1}{2}$ " carriage bolts (qty 6). Depending on the baler model, $\frac{9}{16}$ " holes (3 per side) may need to be drilled in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

Use the template located in the back of the manual as a guide for cutting the notch and mounting holes for the star wheels. The star wheels are to be mounted on top of the baler, just behind the knotters and under the walkway on both sides. Remove the bale from the chute, tip the walkway up and locate the wheels on the top outside corner angles of the bale chute, one on each side. Some balers may already have the notch cut and square holes. If so, the holes will need to be drilled round with a $\frac{5}{16}$ " drill bit. A $\frac{1}{2}$ " x $\frac{1}{2}$ " cut may also need to be made at the base of the twine arm mounting bracket for the star wheel to sit correctly on the bale chamber. Mark the location of the notch ($\frac{5}{8}$ " wide and 9" long) and the location of the four $\frac{5}{16}$ " holes for the star wheel base. After cutting the notch and drilling the hole, insert the $\frac{5}{16}$ " by 3" black allen head bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side.** See Step 8 for directions on how to hook-up the star wheel wires.



Case IH 8570, 8575, and 8585, Challenger LB33, LB34, and Hesston 7430, 4750, 4755, 4760, and 4790, and Massey Ferguson 2050, and New Idea 7233, 7333, 7234 balers

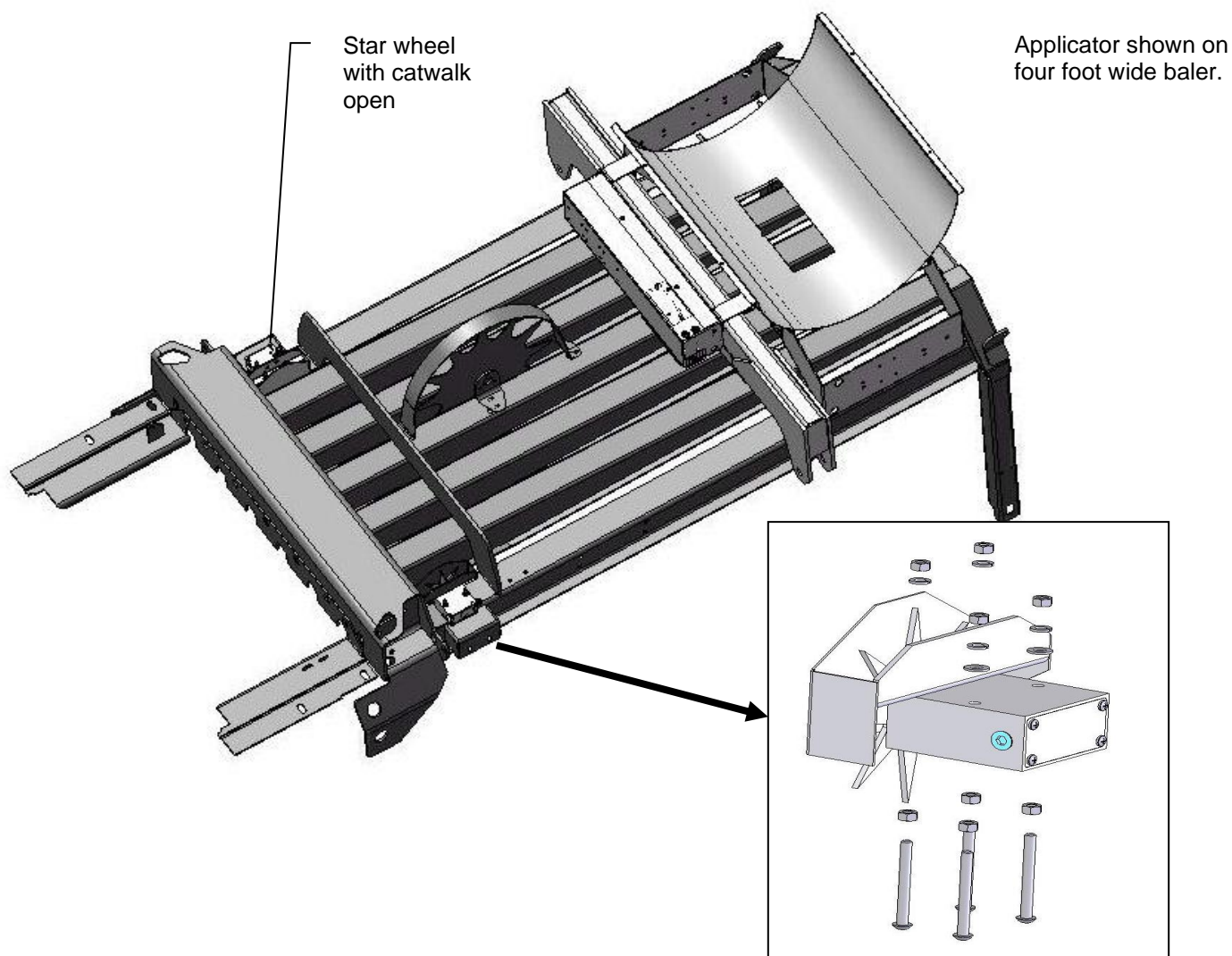
Mount the tank legs and saddle on the baler as shown below, centered between the compression arm and the crossbeam. The tank legs bolt to the baler with $\frac{1}{2}$ " carriage bolts (qty 6). Depending on the baler model, $\frac{9}{16}$ " holes (3 per side) may need to be drilled in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

The star wheels are mounted under the walkway on top of the baler behind the knotters. Remove the bale from the chute and tip the walkway up. Locate the star wheel template on the outside corner angles of the bale chute on the left and right side of the baler. The center of the wheel shaft will be approximately $5\frac{1}{2}$ inches in front of the walkway support or about halfway between the walkway support and the cross frame almost directly in front of it. The notch will start just in front of the walkway support.

Two parts of the baler frame will have to be trimmed off on both sides to mount each star wheel. The first is the outside corner angles of the chute. Use the template to mark the location of the star wheel notch as well as the location of the four holes for the star wheel base. The notch will be $\frac{5}{8}$ " by 9" long and will help keep the wheel away from the twine. Spray the ground off areas with touch up paint to prevent rusting. The second portion of the baler to trim off is the end of the gusset that may interfere with the star wheel's plastic base support. Center the star wheel in the slots that was just notched and check for interference with the gusset.

Drill $\frac{5}{16}$ " holes for the star wheel block. Insert the $\frac{5}{16}$ " by 3" bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side of the baler.** See Step 8 for directions on how to hook-up the star wheel wires.



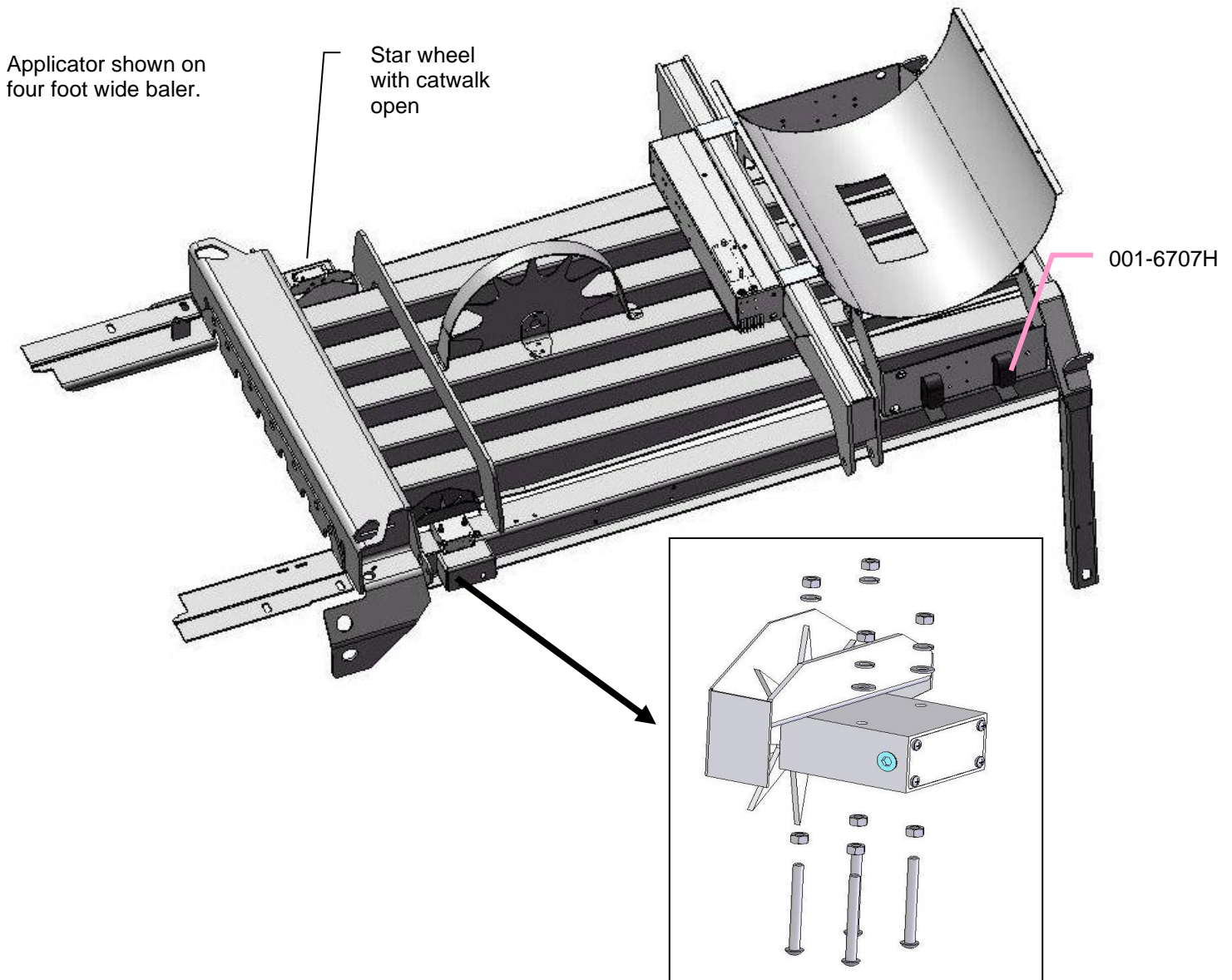
Case IH 8580 and 8590, Hesston 4900 and 4910, Challenger LB44, and New Idea 7244 balers

Mount the tank legs and saddle on the baler as shown below, centered between the compression arm and the crossbeam. The tank legs bolt to the baler with $\frac{1}{2}$ " carriage bolts (qty 6). Depending on the baler model, $\frac{9}{16}$ " holes (3 per side) may need to be drilled in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler. Bolt the ladder bracket extensions (001-6707H) on the side of the tank legs and attach the balers existing ladder.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

The star wheels are mounted on top of the baler, just behind the knotters under the walkway on both sides. Use the template at the back of the manual to mark the location and dimension of the notch and holes. Remove the bale from the chute. Tip the walkway up and locate the wheels on the top outside corner angles of the bale chute, one on each side. The star wheel block is located just in front of the horizontal channels holding the twine boxes. Using the template, mark the location of the notch ($\frac{5}{8}$ " wide and 9" long) and the location of the four $\frac{5}{16}$ " holes for the star wheelbase using a center punch. Any bare metal edge of the angle should be sprayed with touch up paint to prevent corrosion.

Once the above modification to the baler is made on both sides of the chute, the wheels can be mounted. Insert the $\frac{5}{16}$ " by 3" bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side of the baler.** See Step 8 for directions on how to hook-up the star wheel wires.

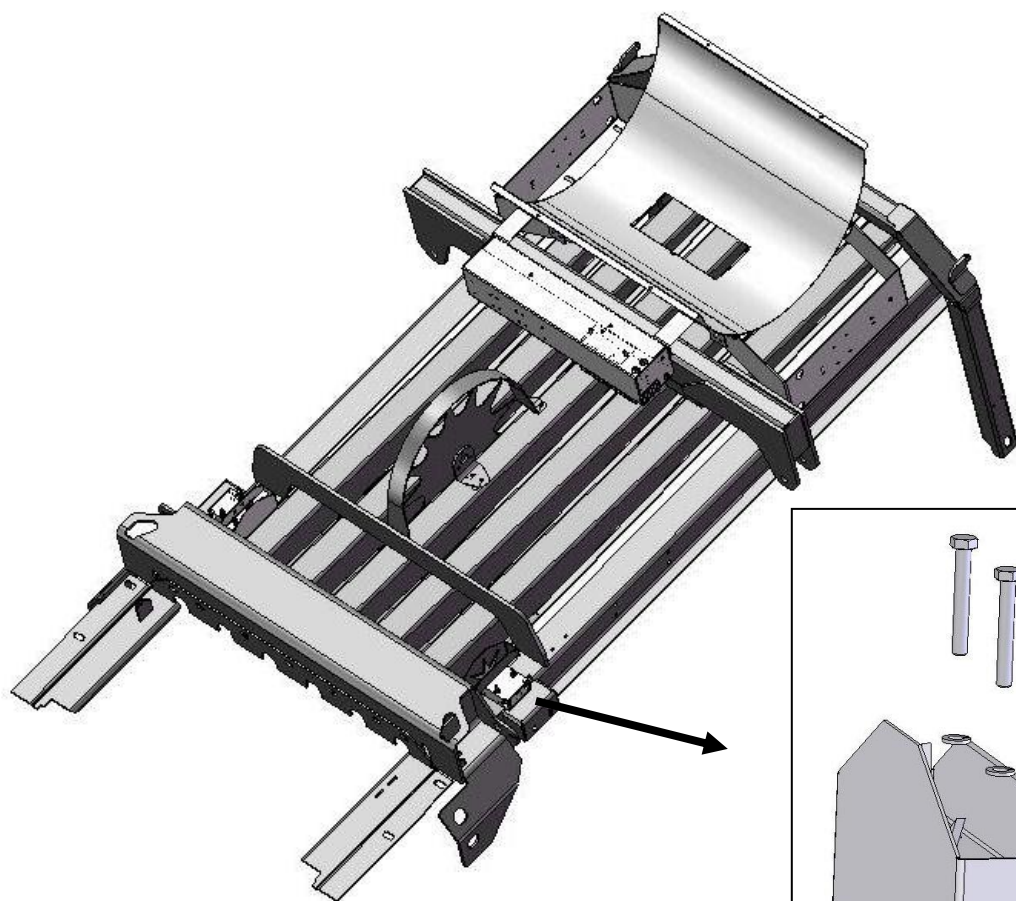


AGCO Hesston 7433, 7434, 7444, 2150, 2170, 2190 and Challenger LB33B, LB34B, LB44B, and Massey Ferguson 2150, 2170, 2190

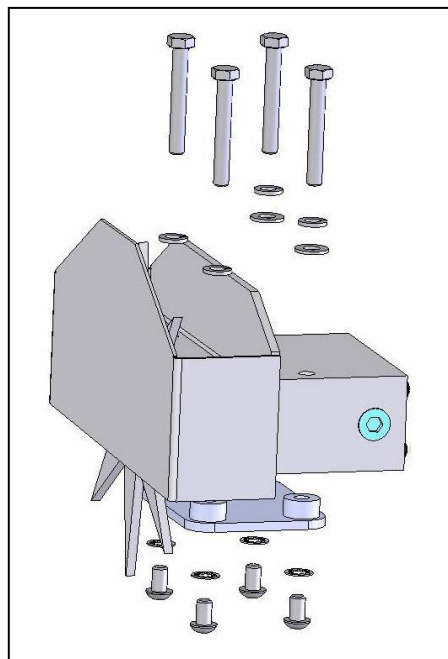
Mount the tank legs and saddle on the baler as shown below, just behind the compression arm. The tank legs bolt to the baler with $\frac{1}{2}$ " carriage bolts (qty 6). Depending on the baler model, $\frac{9}{16}$ " holes (3 per side) may need to be drilled in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler

The star wheels are to be mounted on top of the baler, just behind the knotters and under the walkway on both sides. The notch and holes for the star wheel are pre cut. **If the star wheels are cutting the twine the sensors and notch must be moved out an additional $\frac{1}{2}$ inch. Use the template in the back of the manual for hole spacing.** Place the spacer plate (001-6707E) over the pre cut holes. Attach with $\frac{5}{16}$ x $\frac{1}{2}$ allen head bolts and internal star washers from inside the bale chamber. Center the star wheels over the top of the spacer plate, place the twine diverters on top of the star wheel and attach with $\frac{5}{16}$ x $2 \frac{1}{4}$ hex bolt and lock washers. For remainder two holes per star wheel attach with $\frac{5}{16}$ x $2 \frac{1}{4}$ " hex bolt, lock washer, and one $\frac{5}{16}$ " thick flat washers per bolt. Verify that star wheels align with bale chamber before tightening down all hardware. **The twine guard containing the bale rate sensors will be placed on the right side of the baler.** See Step 8 for directions on how to hook-up the star wheel wires.



Applicator shown on four foot wide baler.

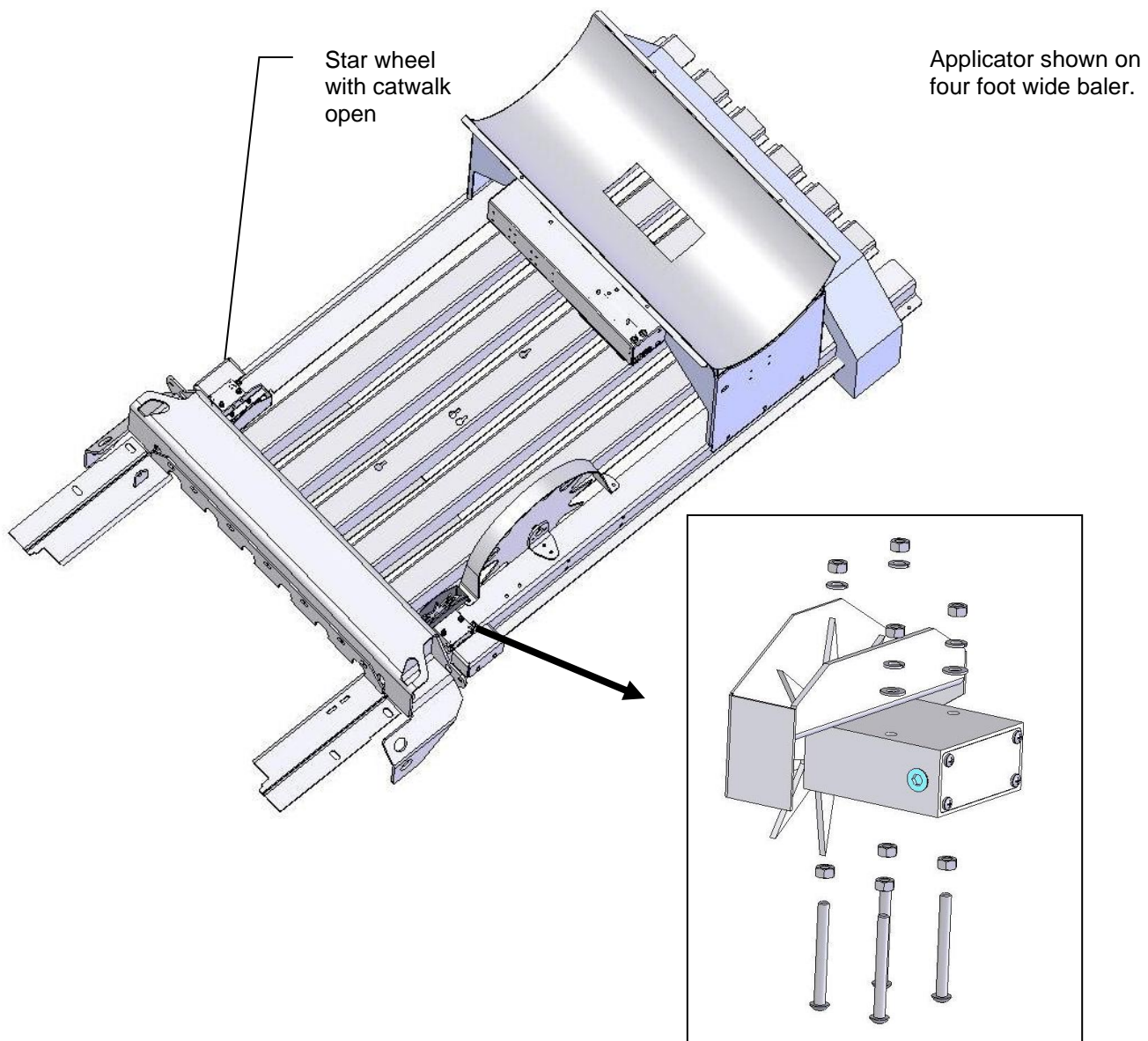


Vermeer SQ2731 and SQ3347 balers

Mount the tank legs and saddle on the baler as shown below. The tank legs bolt to the baler with $\frac{1}{2}$ " carriage bolts (qty 6). You will need to drill $\frac{9}{16}$ " holes (3 per side) in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

Locate the steel crossbeam that goes across the bale chamber in between the knotters and shield for the hydraulic cylinder. The yellow shield is located in the middle and runs in the same direction as the bale chamber. Using the provided star wheel template, locate the template as far forward as possible behind the crossbeam. Position the template so the edge of the star wheel base is aligned with the outside of the bale chamber. Mark the hole positions for drilling and also mark the notch for the star wheels. The notch will be $\frac{5}{8}$ " by 9" long and will help keep the wheel away from the twine. Repeat this process on the other side of the bale chamber for the second star wheel. Insert the $\frac{5}{16}$ " by 3" bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side of the baler.** See Step 8 for directions on how to hook-up the star wheel wires.

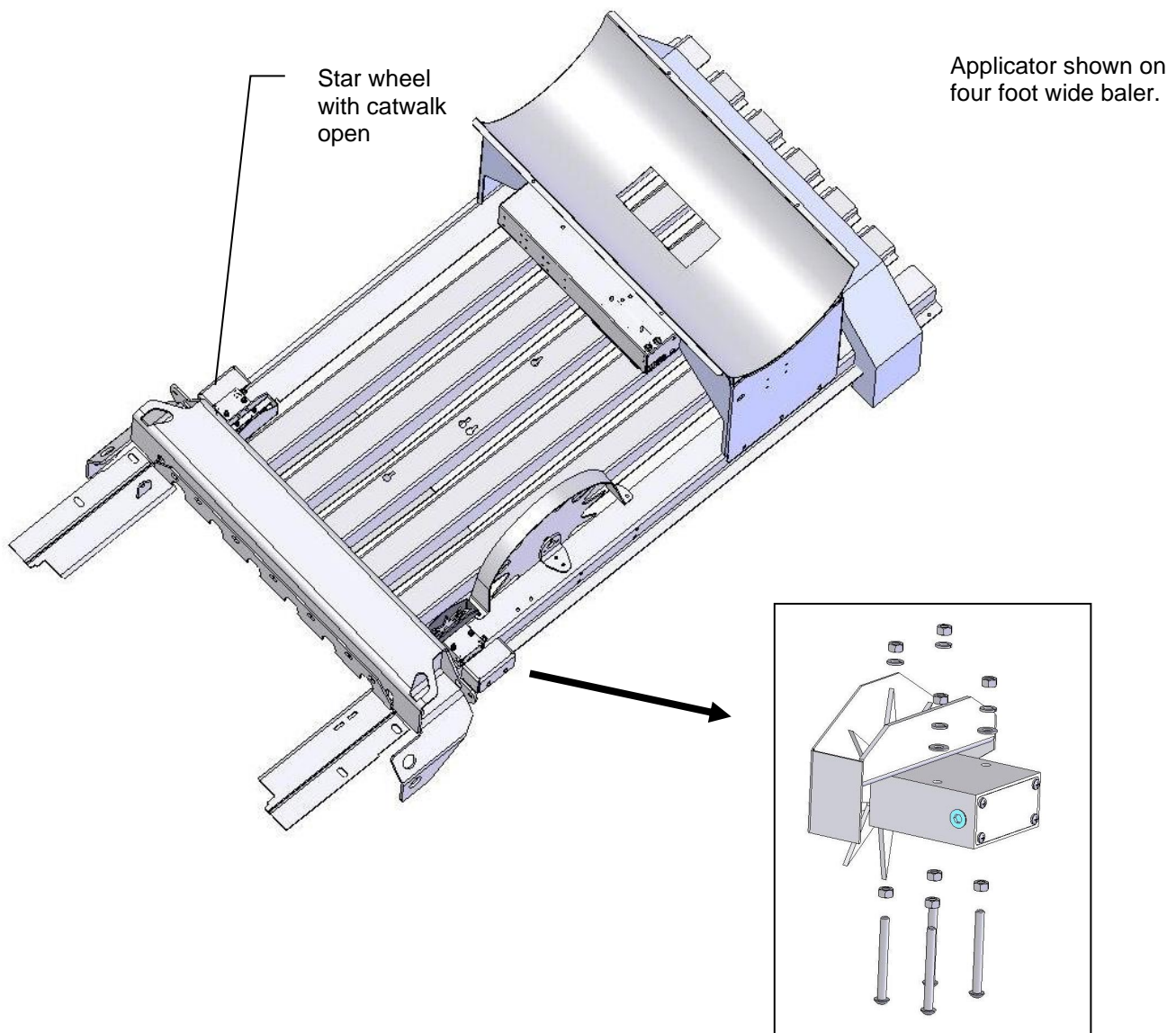


Claas 2100 and 2200 balers

Mount the tank legs and saddle on the baler as shown below. The tank legs bolt to the baler with ½" carriage bolts (qty 6). You will need to drill 9/16" holes (3 per side) in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler. Make sure to mount the tank legs as far back as possible to allow room for using the ladder.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

Use the template located in the back of the manual as a guide for cutting the notch and mounting holes for the star wheels. The star wheels are to be mounted on top of the baler, just behind the knotters and as far forward as possible. Remove the bale from the chute. Locate the wheels on the top outside corner angles of the bale chute, one on each side. Mark the location of the notch (5/8" wide and 9" long) and the location of the four 5/16" holes for the star wheel base. After cutting the notch and drilling the hole, insert the 5/16" by 3" black allen head bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side.** See Step 8 for directions on how to hook-up the star wheel wires.



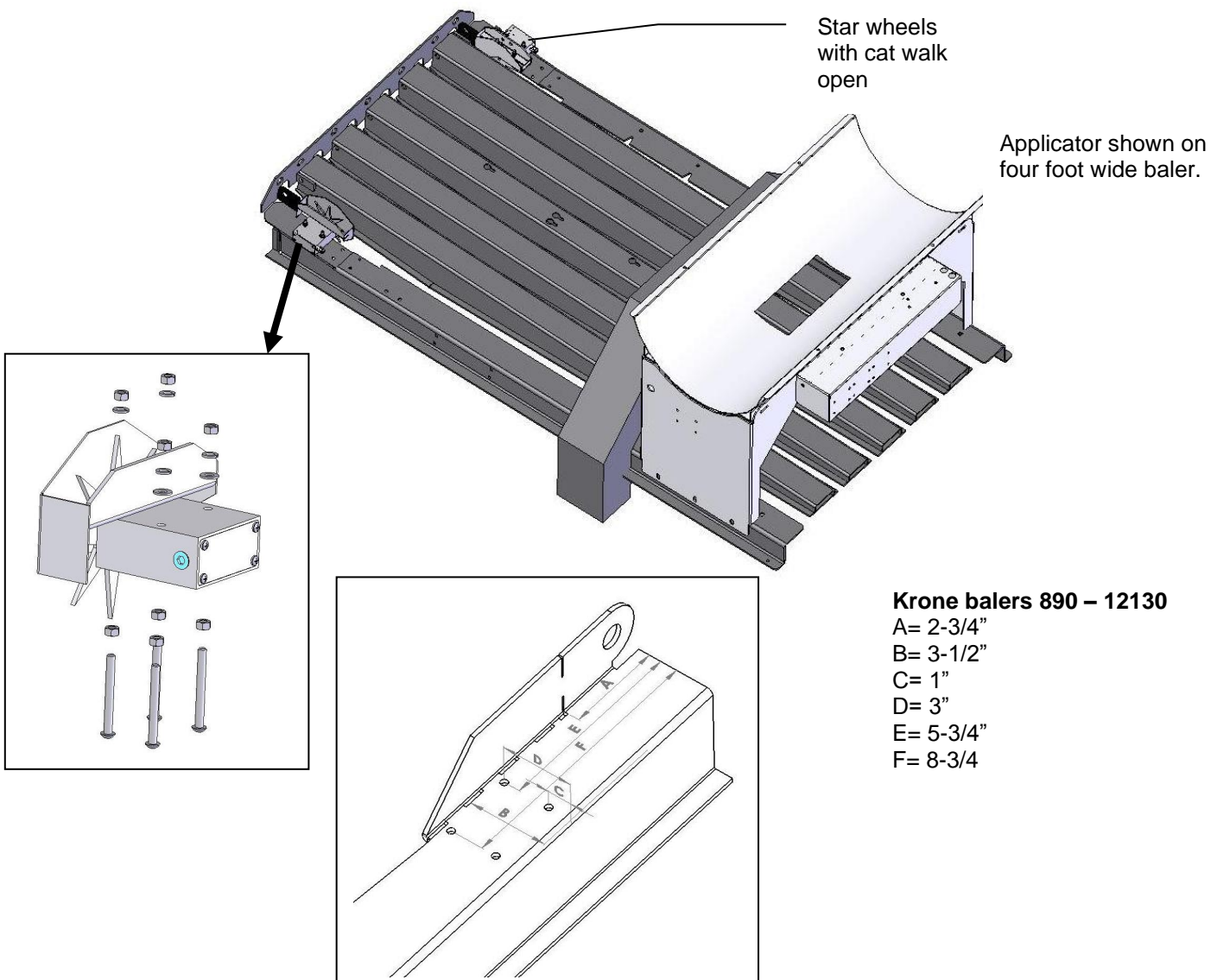
Krone large square

For 2010 Krone HDP part number 20 073 194 0 must be ordered. This kit will include mounting instructions for the star wheels.

Mount the tank legs and saddle on the baler as shown below. The tank legs bolt to the baler with $\frac{1}{2}$ " carriage bolts (qty 6). You will need to drill $\frac{9}{16}$ " holes (3 per side) in the baler to bolt down the tank legs. The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

Remove the bale for the bale chute. The star wheels are to be mounted on top of the baler, just behind the knotters and as far forward as possible. Use the table and diagram below to mark the four bolt hole locations on the bale chamber (C,D,E,F). Use the template in the back of the manual to mark the location of the notch to be cut. When cutting the notch both the vertical brace and the bale chamber will need to be cut. Before cutting verify the notch measurement with the below diagram using marks A & B. After cutting the notch and drilling the holes, insert the $\frac{5}{16}$ " by 3" black allen head bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side.** See Step 8 for directions on how to hook-up the star wheel wires.

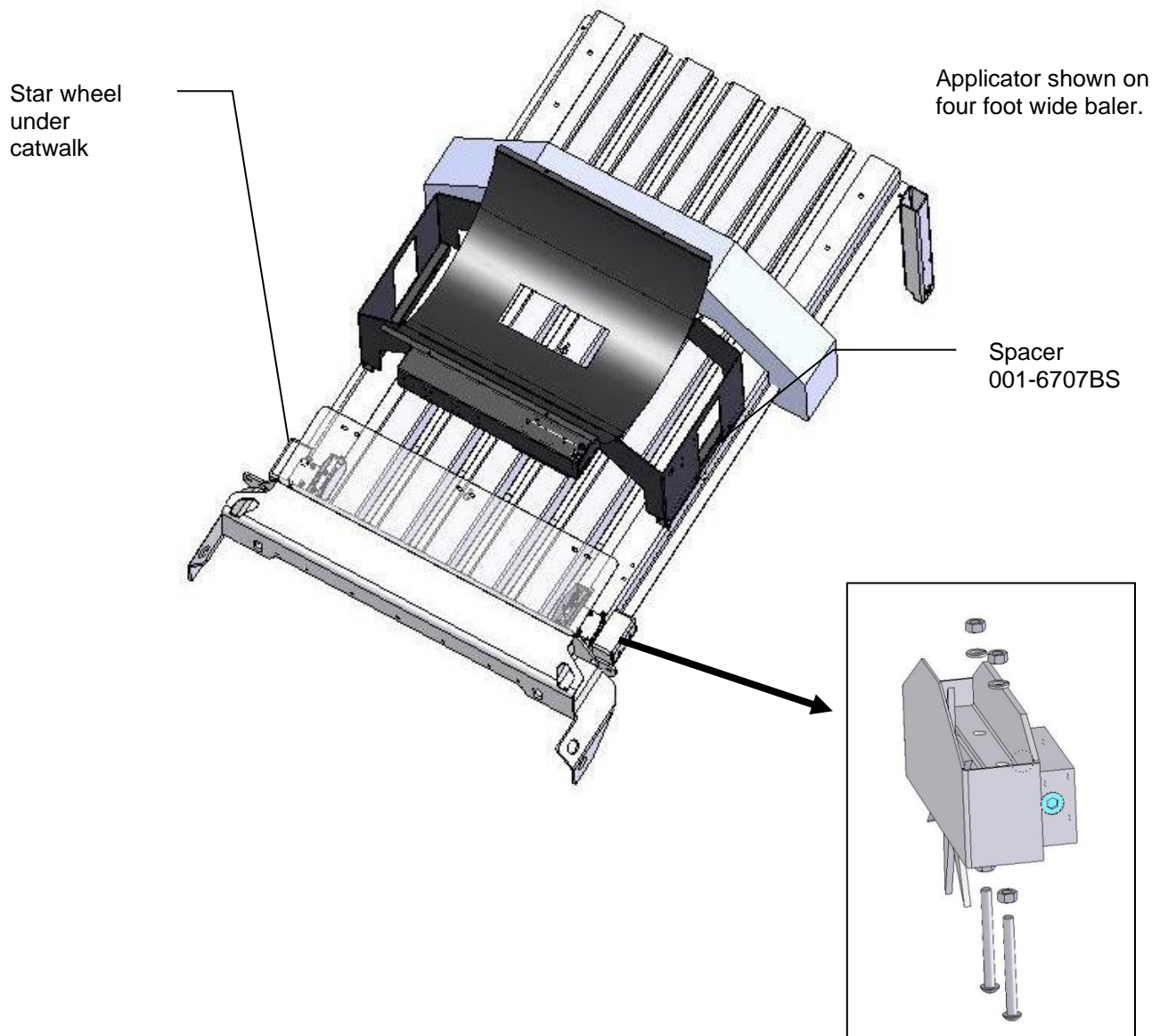


Kuhn LSB 870 – 1290, Vicon LB 8200 and LB 12200 & Taarup 6570 – 6690 OC

Mount the tank legs and saddle on the baler as shown below. Insert the two 001-6707BS spacers between the legs and saddle legs. The tank legs bolt to the baler with 1/2" carriage bolts (qty 6). The bolts should be inserted from inside the baler.

The saddle is intentionally tipped forward by 5° so that the tank cap will be parallel to the ground. There is a small cut out "V" where the tank sump fits in the saddle and this cut out should face the back of the baler for the tank to be level when installed on the baler.

Use the template in the back of the manual labeled Vicon large square balers for this installation. The star wheels are to be mounted on top of the baler, just behind the knotters and under the walkway on both sides. Remove the bale from the chute, mount the star wheels flush with the back of the walkway with one star wheel on each side. Mark the holes inside the chamber, and drill the two holes per side, for mounting from inside the chamber. Insert the 5/16" by 3" black allen head bolts up through the chute and use nuts to hold the bolts in place. Place the star wheel block over the nuts and install the twine guards using the two inner holes of the star wheel block. **The twine guard containing the bale rate sensors will be placed on the right side.** See Step 8 for directions on how to hook-up the star wheel wires.

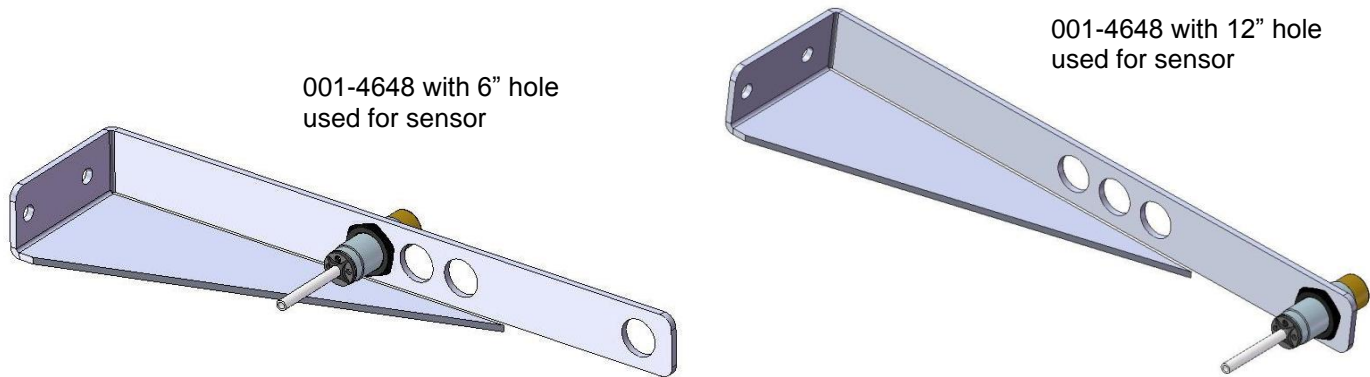


4. Installation of end of bale sensor

The end of bale sensor determines the position of the needles on the baler. When the needles cycle, the sensor communicates this information to the Precision Information Processor. This information is used for job records and will be used by the optional Bale Identification system. Follow the steps below for your baler to mount the sensor.

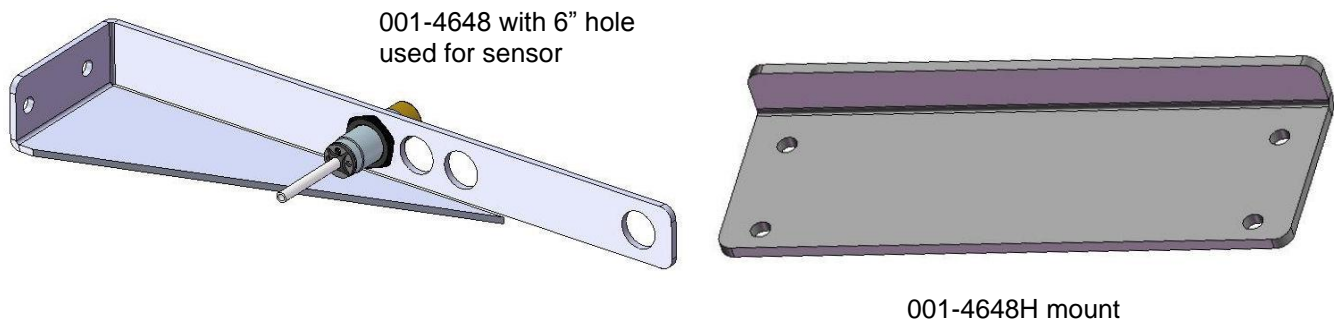
All AGCO Hesston 4760 – 4790, 2150 -2190 and equivalents, Case IH LBX 331 – LB 433, Class 2100, John Deere 100, New Holland 590 – BB 9080

End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.



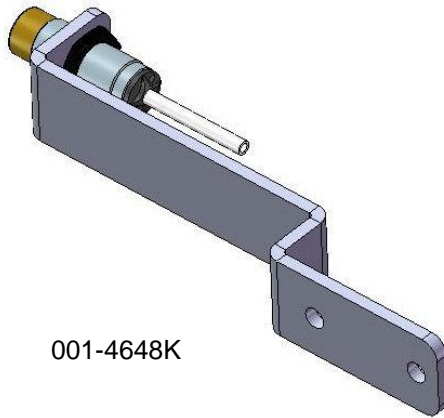
All Hesston 4750 – 4755 & 4900 – 4910

End of bale sensor bracket (001-4648) and Hesston end of bale mount (001-4648H) will be used. The Hesston end of bale mount will be found in the installation kit box. Cutoff excess metal not used during installation.

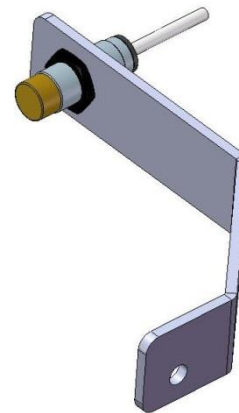


All Krone 890 -12130

Krone End of bale sensor bracket (001-4648K or 001-4648K2) be used. The Krone end of bale mount will be found in the installation kit box. The 001-4648K will be used with balers 890 – 1290. The 001-4648K2 will be used with the 12130 baler.



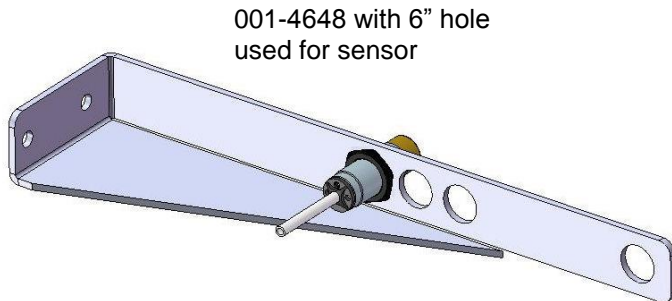
001-4648K



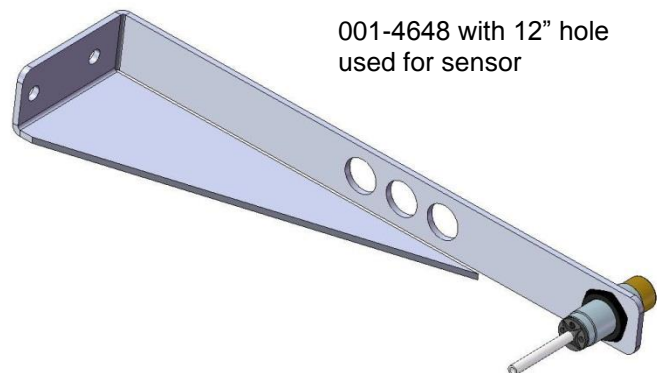
001-4648K2

All Kuhn, Vicon and Taarup balers

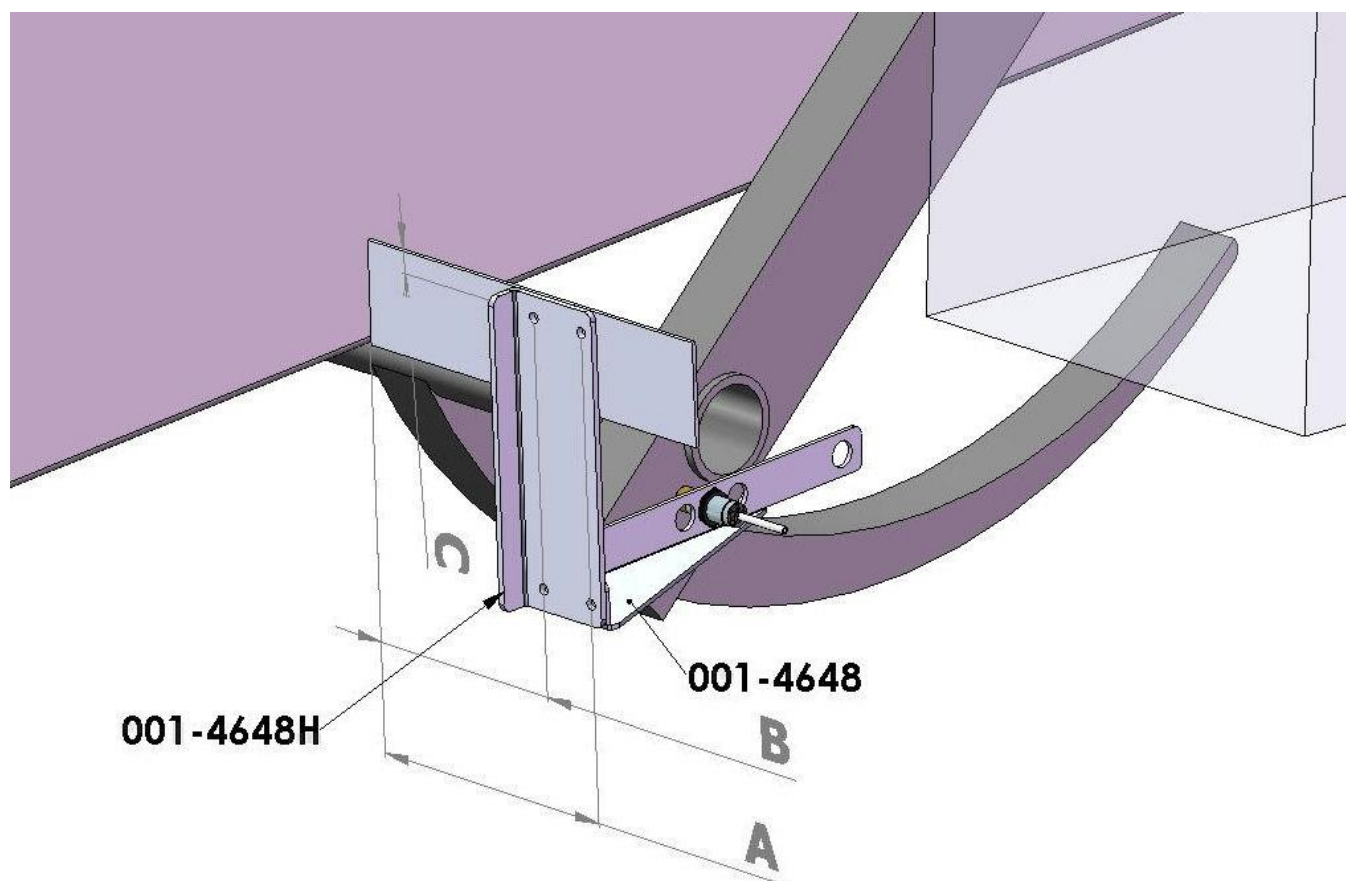
End of bale sensor bracket (001-4648) will be used. Cutoff excess metal not used during installation.



001-4648 with 6" hole
used for sensor



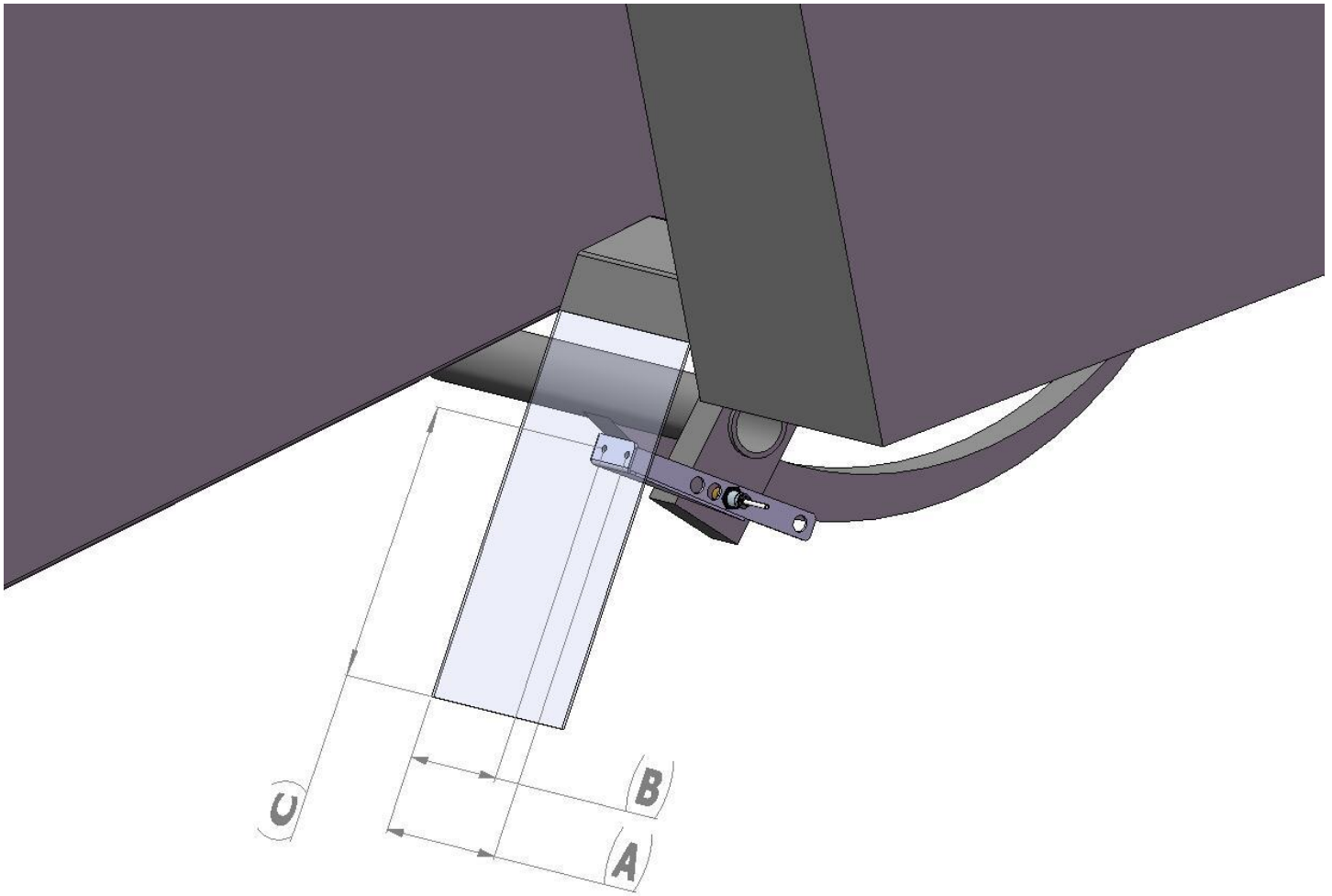
001-4648 with 12" hole
used for sensor



Sensor hole location	A	B	C
7"	7-7/8"	9-5/8"	5/8"

Attach the Hesston end of bale mount (001-4648H) as shown. Attach the end of bale sensor bracket (001-4648) to the Hesston end of bale mount (001-4648H) using two 1/4" x 1" bolts, lock and flat washers, and nuts. Align the brackets and mark the two 5/16 holes to be drilled. Attach the brackets to the baler using two 1/4" x 1" bolts, lock and flat washers, and nuts. Mount the sensor in the 7" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Cutoff excess metal past the sensor. Run the sensor cable up to the Precision Information Processor and secure to the baler.

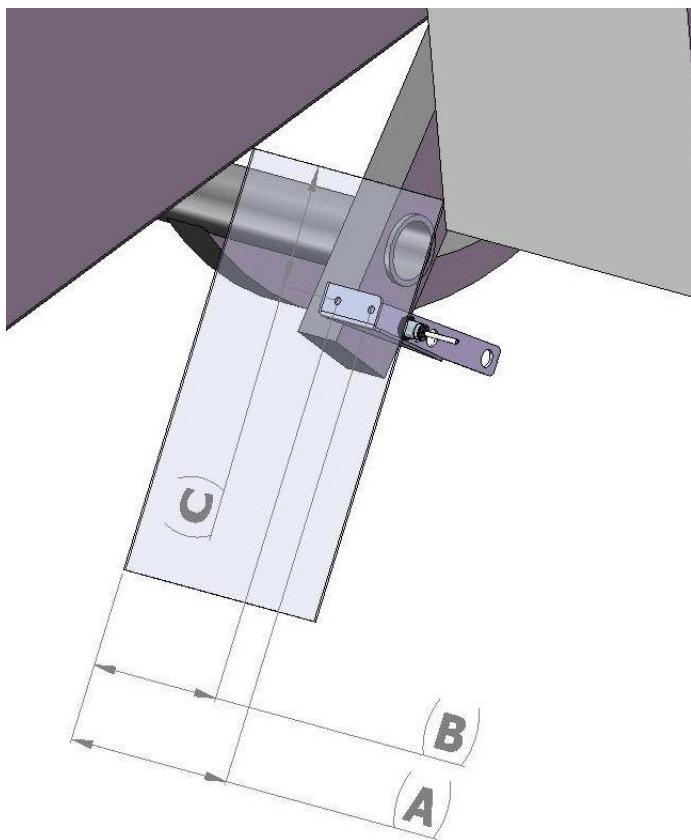
AGCO Massey Ferguson 2150 - 2190 & Equivalants



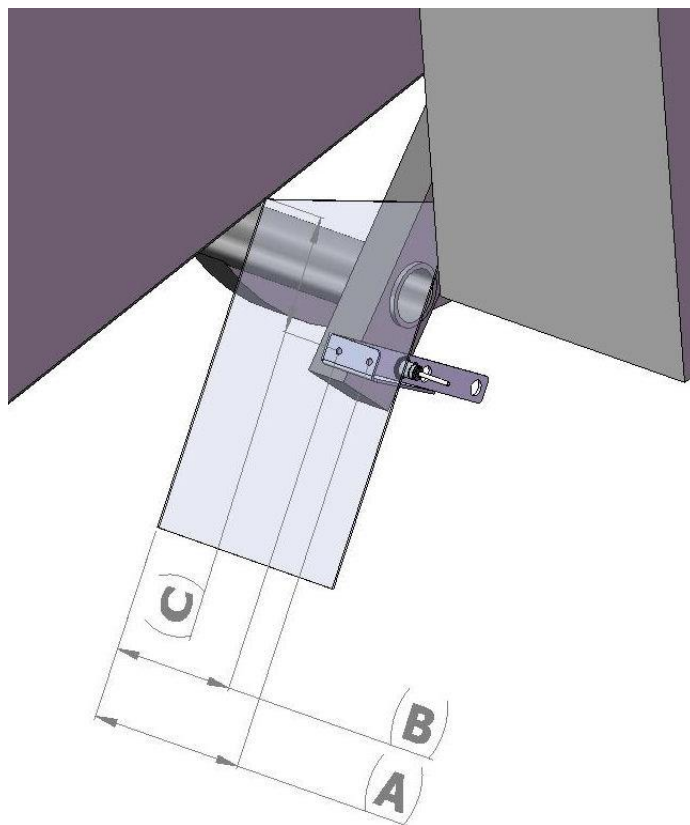
Sensor hole location	A	B	C
8"	4-7/8"	3-1/8"	15"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 8" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Cutoff excess metal past the sensor. Run the sensor cable up to the Precision Information Processor and secure to the baler.

Hesston 4760 & 4790



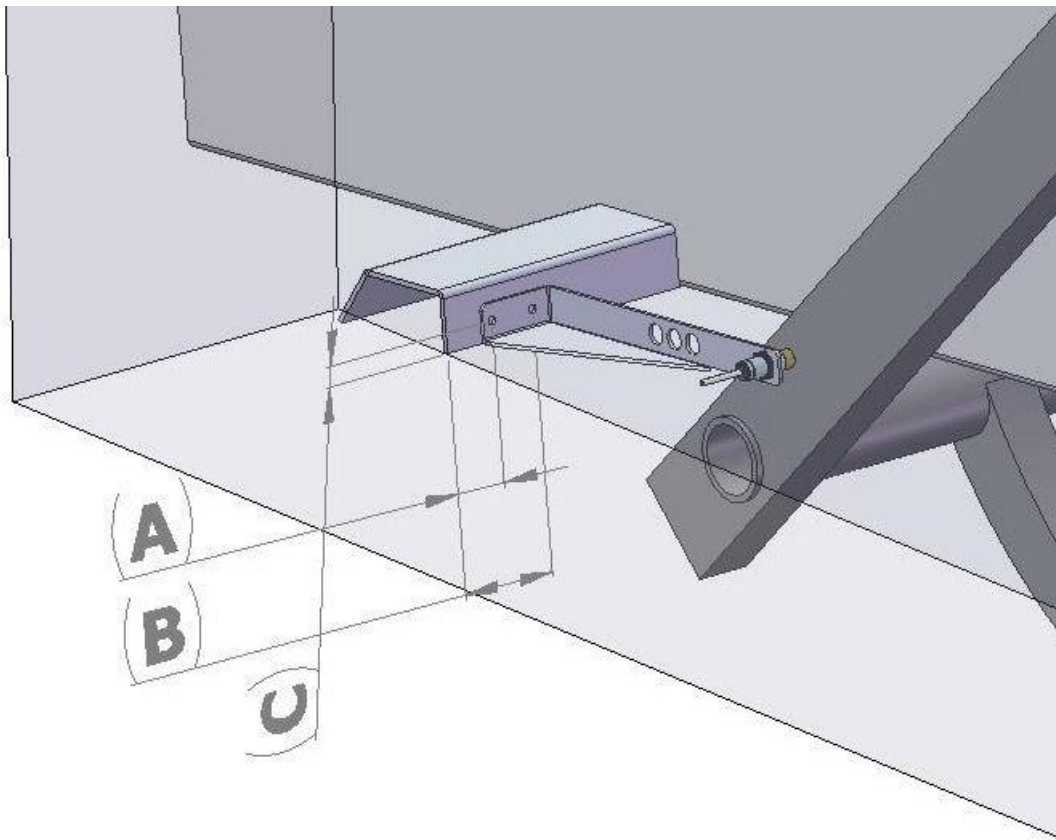
Hesston 4760



Hesston 4790

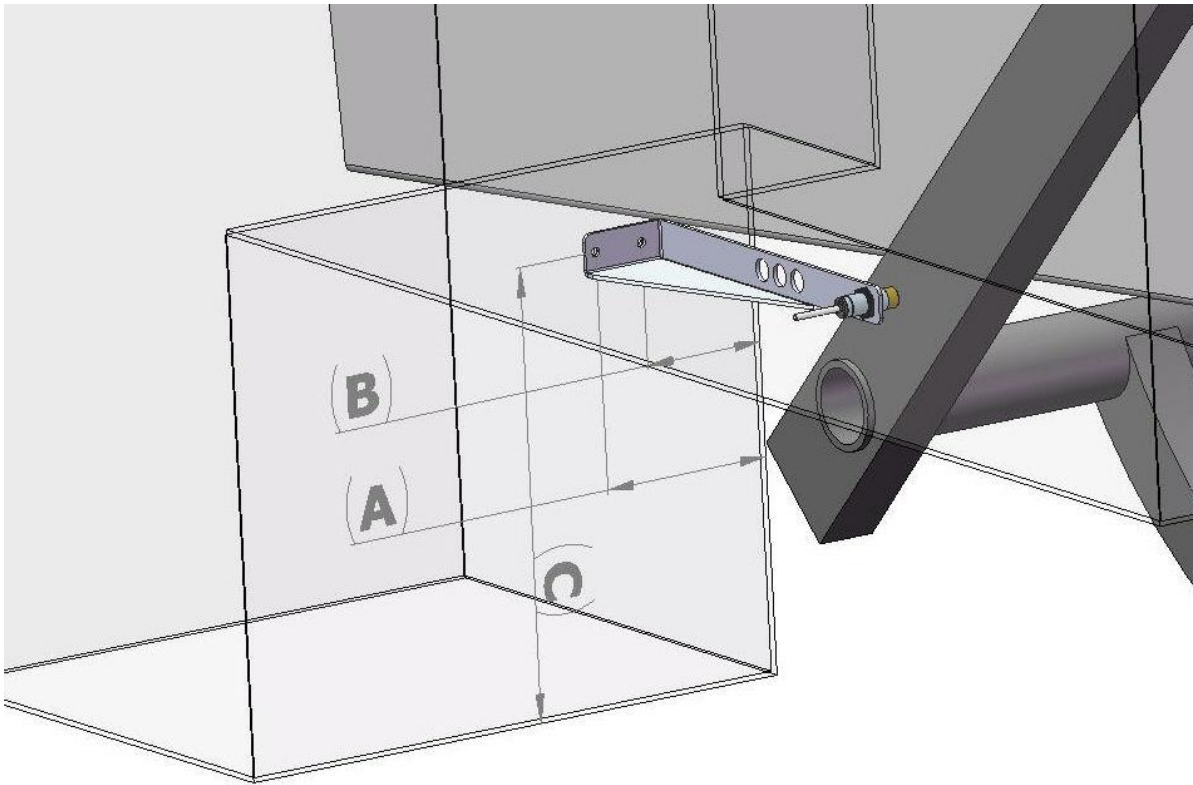
Baler	Sensor hole location	A	B	C
4760	6"	6-5/8"	4-7/8"	4"
4790	6"	4-5/8"	2-7/8"	3"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 6" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Cutoff excess metal past the sensor. Run the sensor cable up to the Precision Information Processor and secure to the baler.



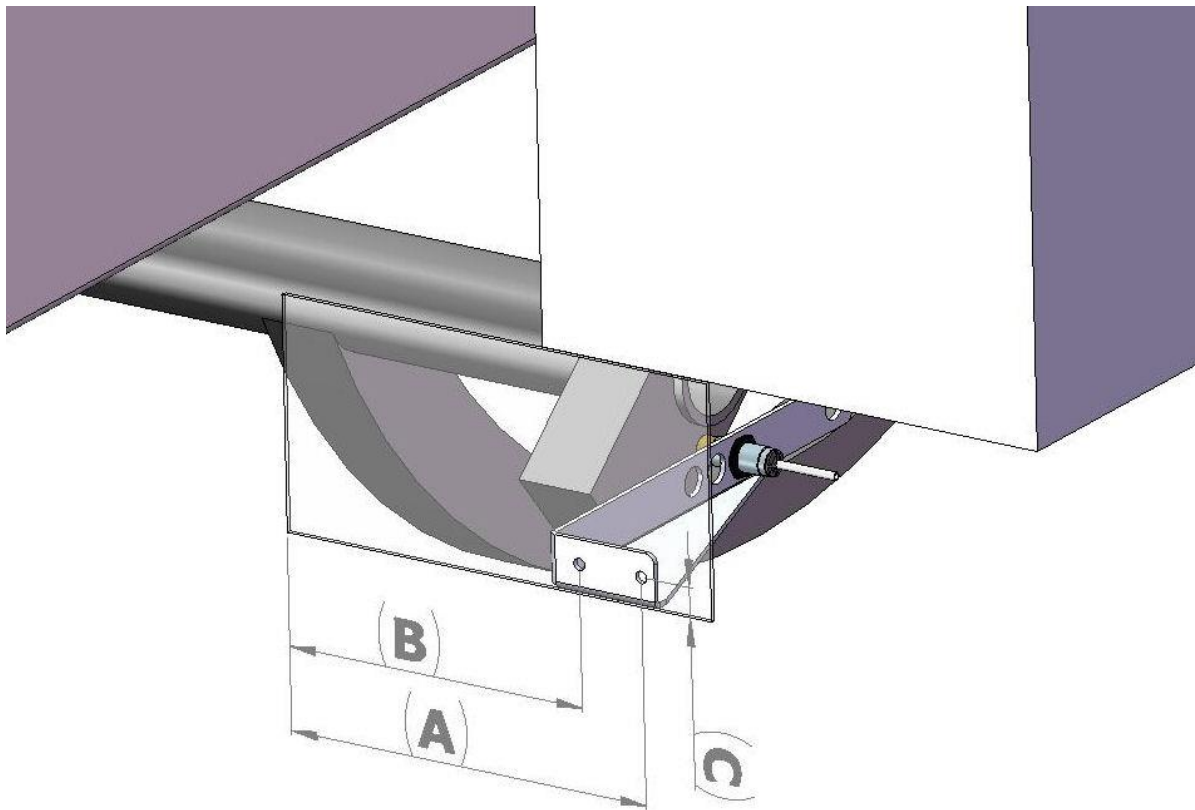
Sensor hole location	A	B	C
12"	2-7/9"	4-3/8"	5/8"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 12" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Run the sensor cable up to the Precision Information Processor and secure to the baler.



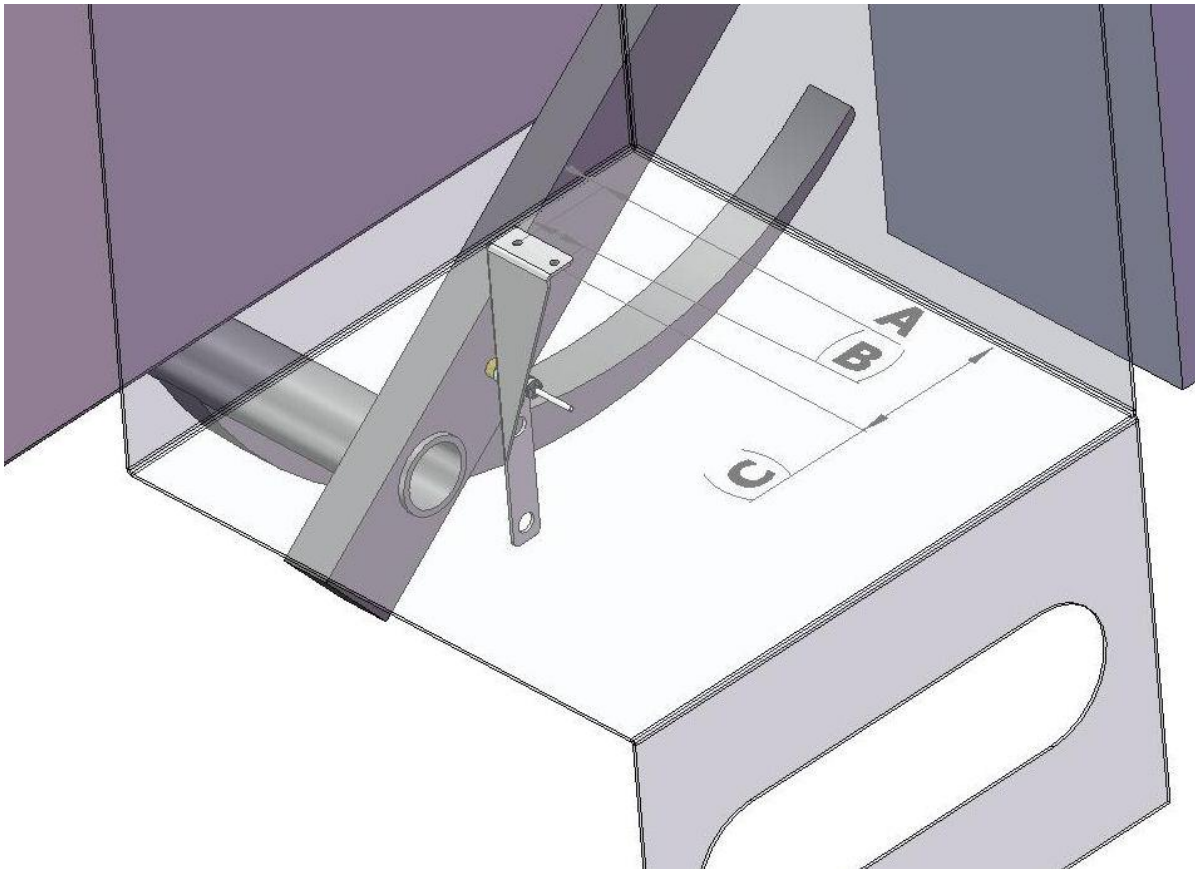
Sensor hole location	A	B	C
12"	6-1/8"	4-3/8"	15"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 12" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Run the sensor cable up to the Precision Information Processor and secure to the baler.



Sensor hole location	A	B	C
8"	5-3/4"	4"	5/8"

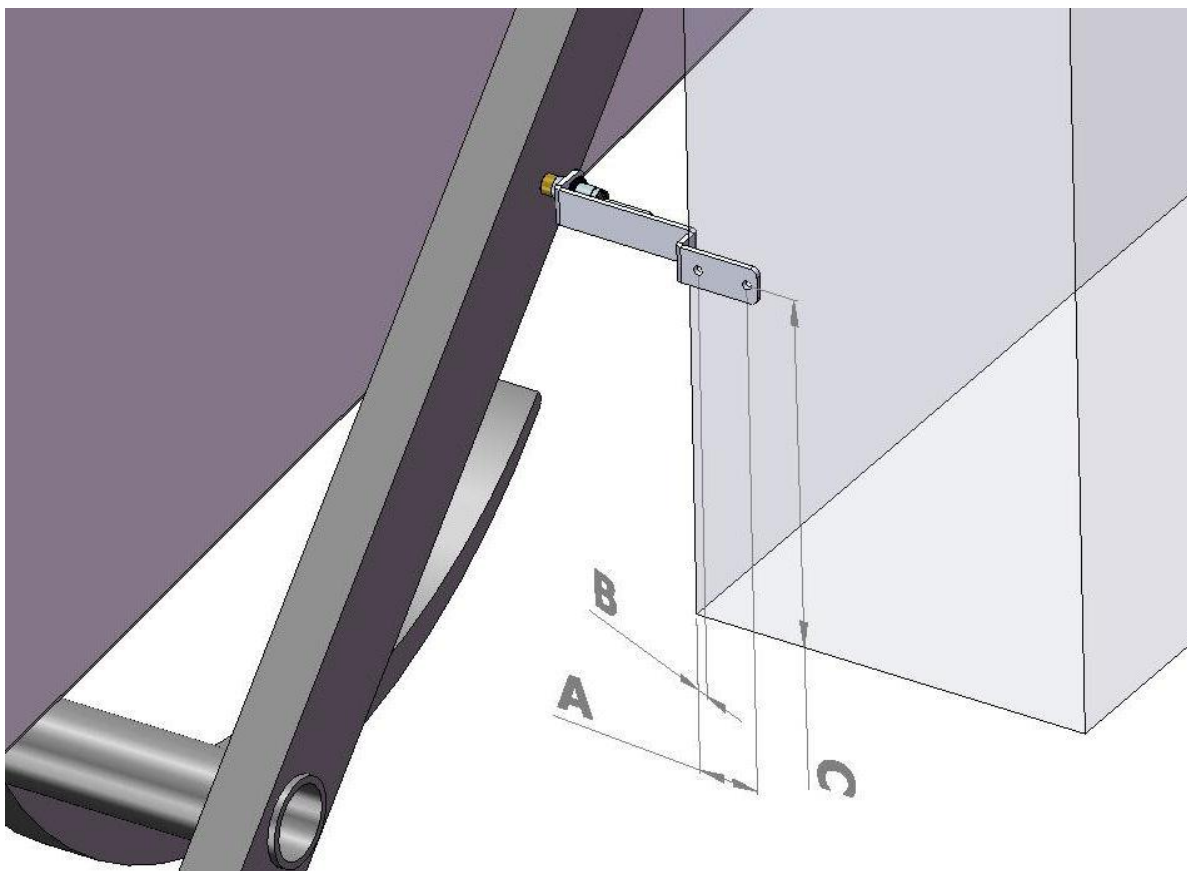
Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 8" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Cutoff excess metal past the sensor. Run the sensor cable up to the Precision Information Processor and secure to the baler.



Sensor hole location	A	B	C
6"	2-5/8"	7/8"	7"

Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in the 6" hole location, keep the sensor 1/4" from the needle and tighten both nuts. Cutoff excess metal past the sensor. Run the sensor cable up to the Precision Information Processor and secure to the baler.

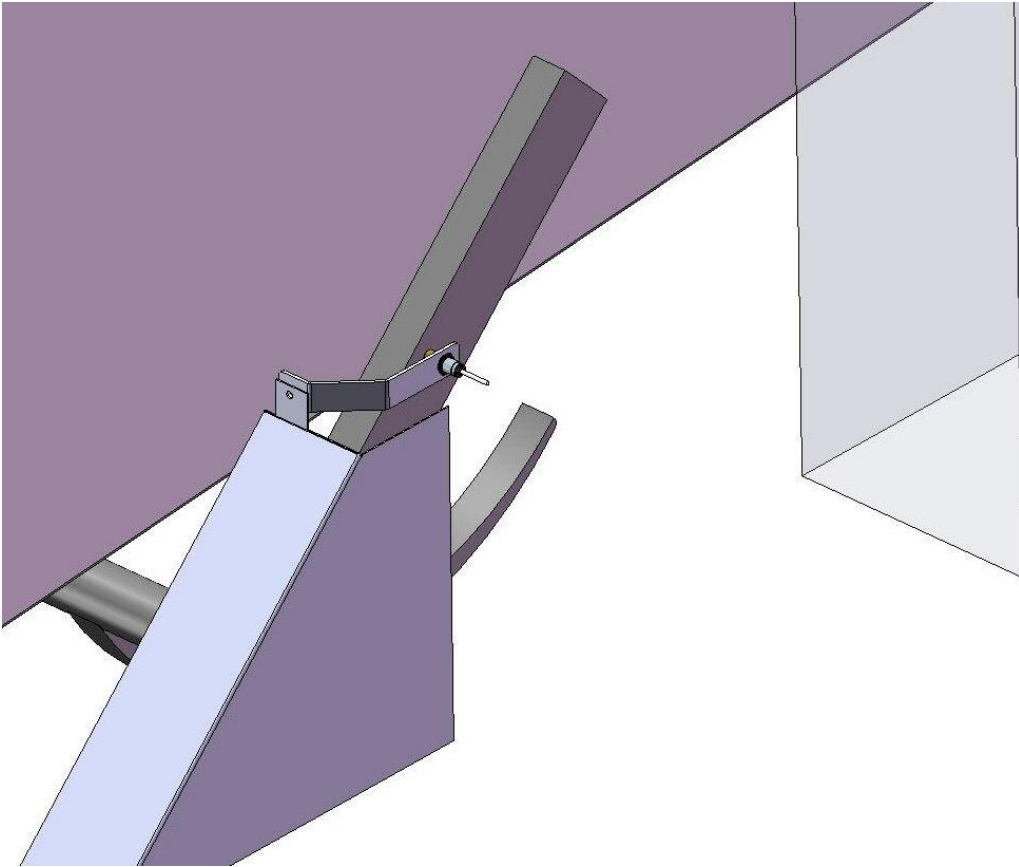
Krone 890 – 1290



Sensor hole location	A	B	C
N/A	2-1/4"	1/2"	8"

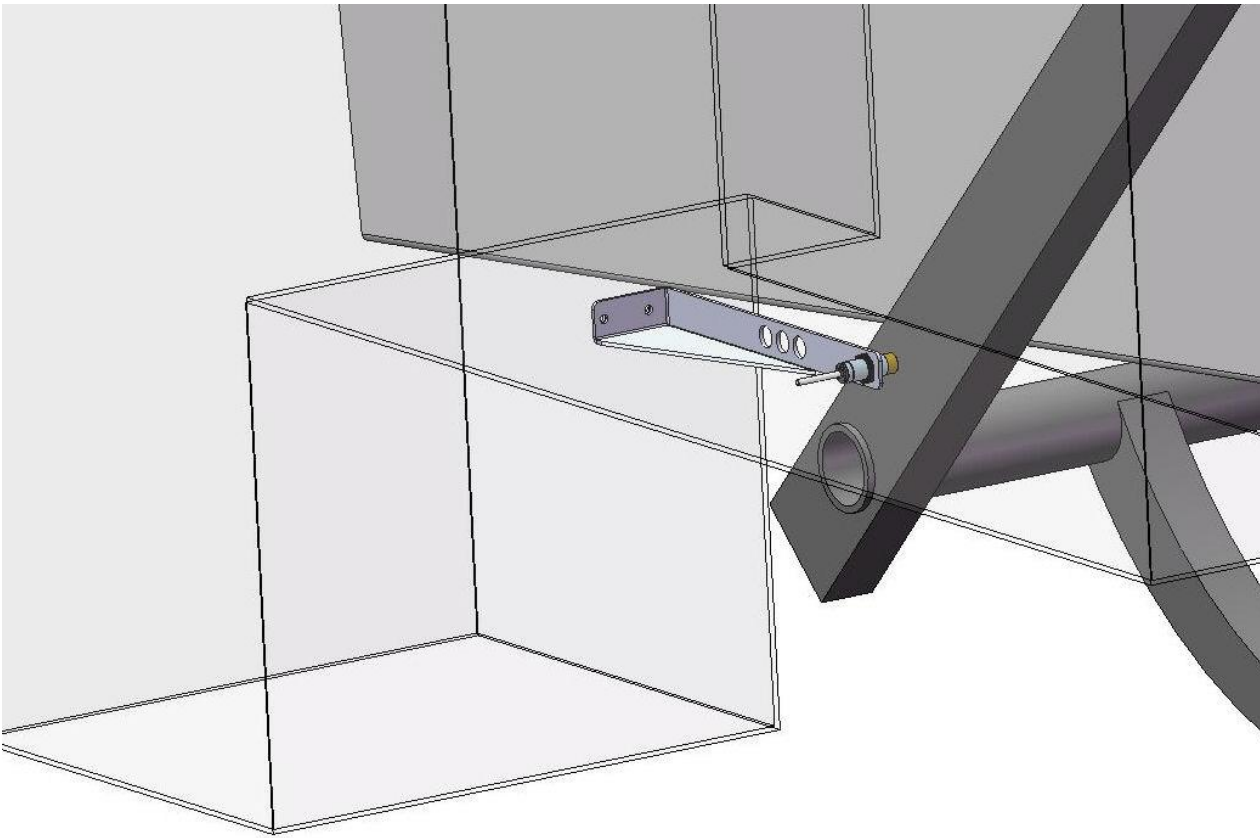
Mount the Krone end of bale sensor bracket (001-4648K) as shown. The Krone mounting bracket can be found in the installation kit box. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. . Mount the sensor at the end of the bracket, keep the sensor 1/4" from the needle and tighten both nuts. Run the sensor cable up to the Precision Information Processor and secure to the baler.

Krone 12130



Mount the Krone end of bale sensor bracket (001-4648K2) as shown. The Krone mounting bracket can be found in the installation kit box. Directly behind the twine box on the right side of the baler remove the bolt and nut that secures the fiberglass baler shield to the baler. Mount the sensor bracket using the 3/8 x 1 bolt, lock and nut. Mount the sensor at the end of the bracket, keep the sensor 1/4" from the needle and tighten both nuts. Run the sensor cable up to the Precision Information Processor and secure to the baler.

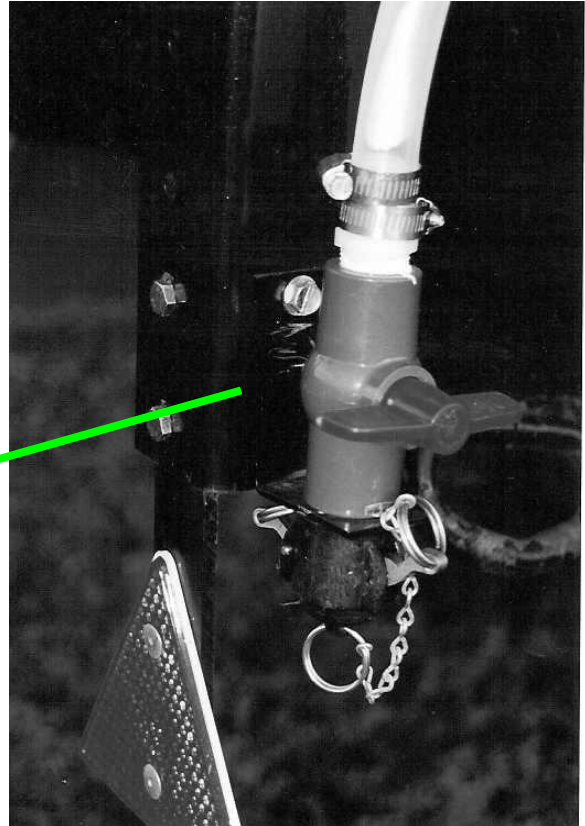
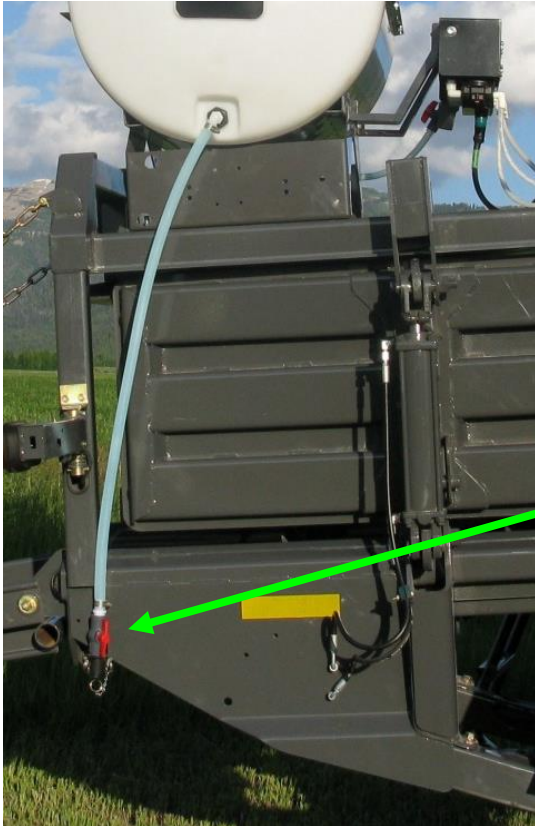
All Kuhn, Vicon and Taarup balers



Mount the end of bale sensor bracket (001-4648) as shown. Mark and drill two 3/8" holes and attach the bracket using two 5/16" x 1" self-tapping screws, and 5/16" flange nuts. Mount the sensor in a hole location centered over the needle arm, keep the sensor 1/4" from the needle and tighten both nuts. Run the sensor cable up to the Precision Information Processor and secure to the baler.

5. Installation of the drain fill line

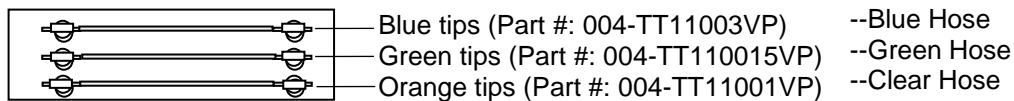
1. Thread 3/4" elbow fitting into end of tank.
2. Run hose from the elbow down the frame to the bottom of the baler.
3. Drill 1/4" holes to accept the valve holder bracket and use 5/16" x 1" self-tapping screws.
4. Connect valve assembly to other end of hose. Place hose clamps on both ends.
5. Secure hose to frame using cable locks.



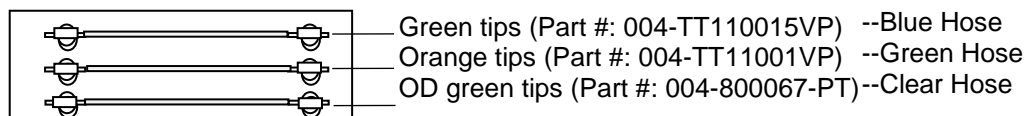
6. INSTALLATION OF THE SPRAY SHIELD

The spray shield assembly is designed to spray the hay evenly as the baler picks it up. A sketch of the spray shield nozzle holder is shown below.

High Output Tips for Rates Requiring 84-632 lbs/hr. (Approximately 21-63 tons/hr)



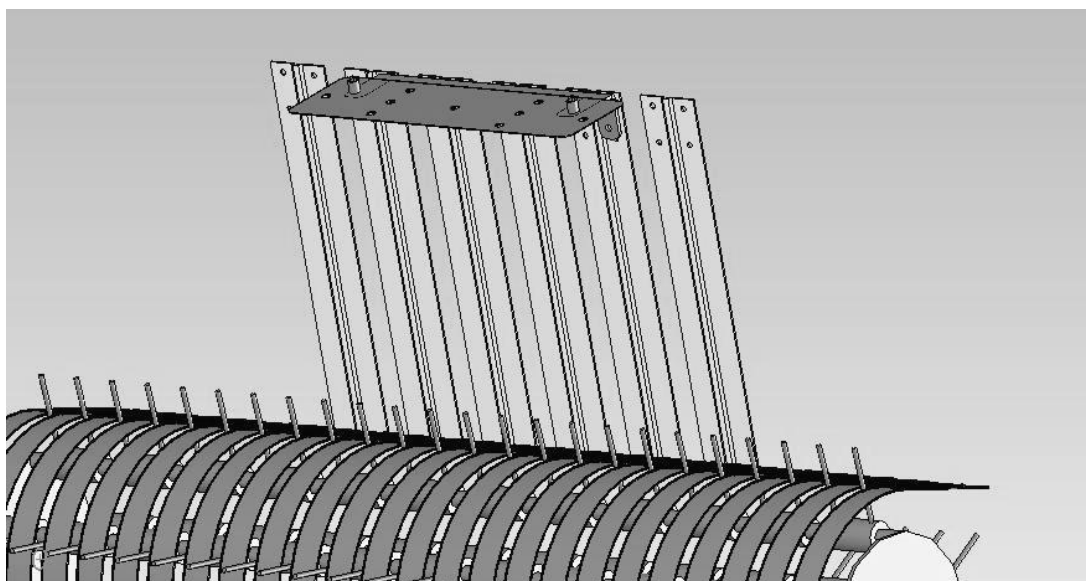
Low Output Tips for Rates Requiring 44-400 lbs/hr. (Approximately 11-40 tons/hr)



Spray shield showing nozzle placement and tubing.

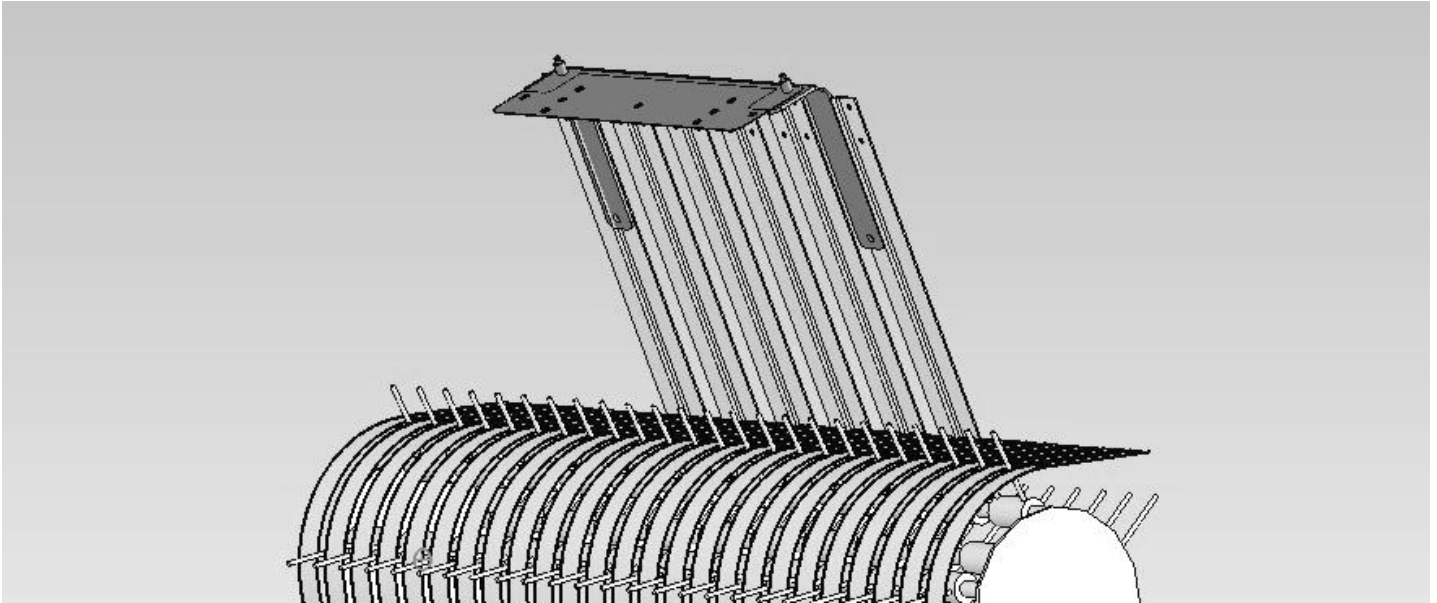
Installation kit 4438B for Vermeer SQ2731

The spray shield is installed on the gathering fork guard located in the back of the pick up head. Existing bolts are used to fasten the spray shield bracket to the gathering fork guards. Route hoses so they will not interfere with moving parts. This can be checked by rotating the flywheel by hand. **Don't fasten hoses to metal hydraulic lines!** A parts breakdown is located in the back of the manual.



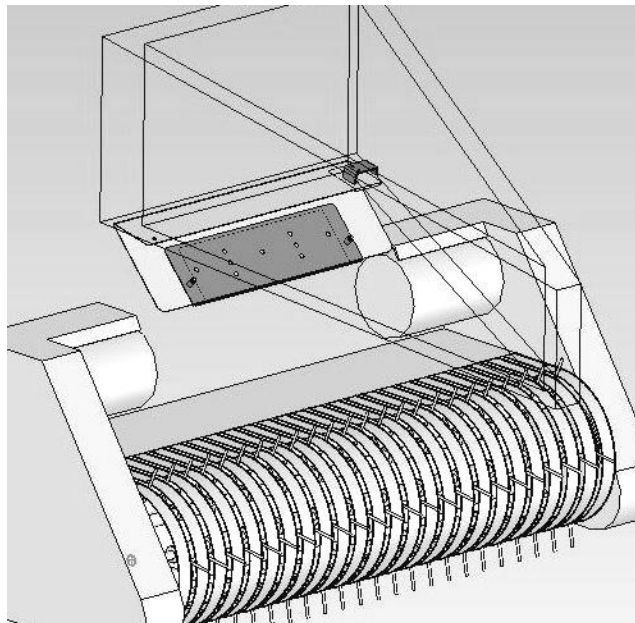
Installation kit 4439B for Vermeer SQ3347

The spray shield is installed on the gathering fork guard located in the back of the pick up head. Existing bolts are used to fasten the spray shield bracket to the gathering fork guards. Route hoses so they will not interfere with moving parts. This can be checked by rotating the flywheel by hand. **Don't fasten hoses to metal hydraulic lines!** A parts breakdown is located in the back of the manual.



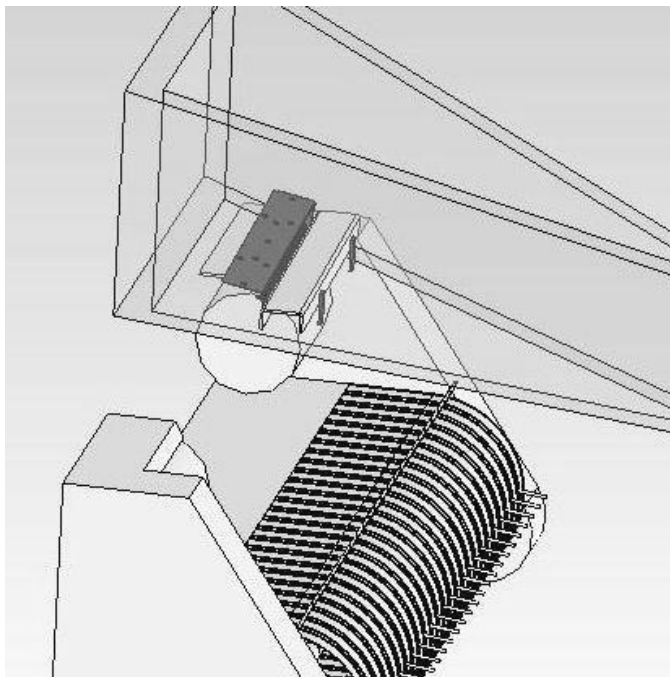
Installation kit 4490B for Case IH 8570 and 8575, Hesston 4750 and 4755, and New Idea 7233 balers

The spray shield holder will be installed underneath the baler's tongue. Bolt the right side up using the existing hole on the bottom lip of the baler. Use the clamp on the left hand side to tighten the shield against the underside of the tongue. Tighten the clamp with the two bolts provided. A parts breakdown of the 4490B is located in the back of this manual.



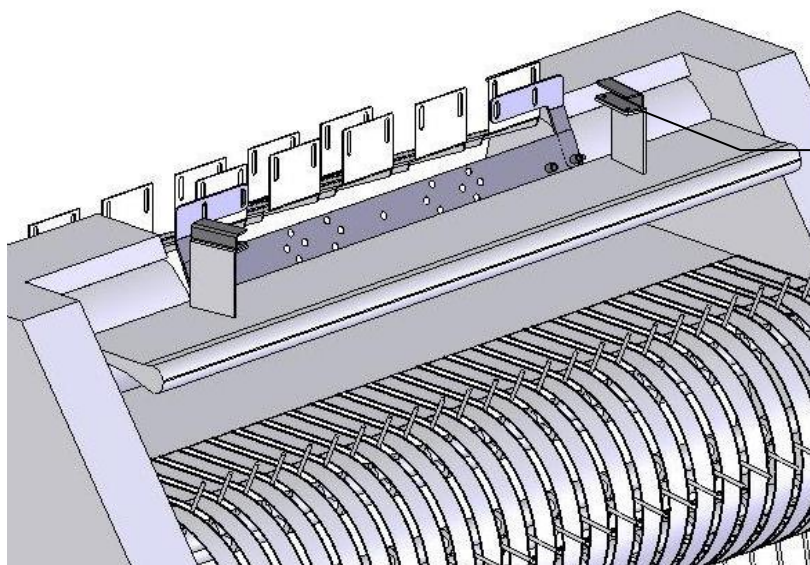
Installation kit 4491B for Hesston 4900 and 4910, Challenger LB44, Case IH 8580 and 8590, and New Idea 7244 balers

Install the spray shield behind the baler's cross channel, which is located on the bottom side of the tongue behind the flywheel. Note the position of the bevel on the spray shield. Clamp the spray shield around the channel using the backing plates and the 1/4" by 7" bolts provided. A parts breakdown of the 4491B install kit is shown in the back of this manual.



Installation kit 4492B for Hesston 4790, Case IH 8585, Challenger LB34, and New Idea 7234 balers

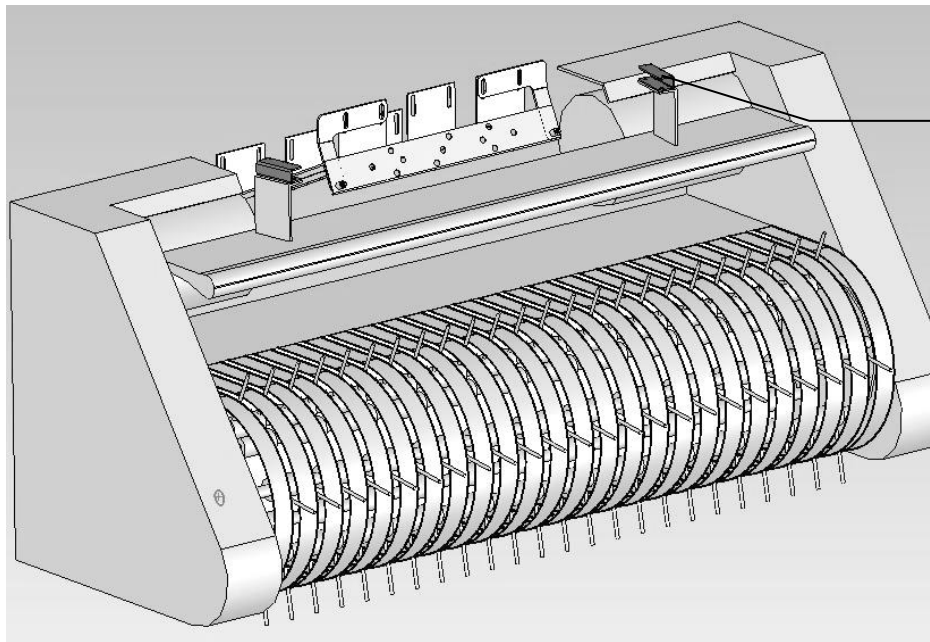
Remove the two 3/8" carriage bolts that connect the wrapper extension to the angle support on each side. Place the brackets 001-4436DL and 001-4436DR between the angle support and the wrapper extension. Replace the bolts with 3/8" x 1 1/4" carriage bolts, nuts, locks, and flat washers. Before tightening pull down on wrapper extensions so when tightened the bolts are in the top of the wrapper extension slot. Install the wind guard stops 001-4436S as shown below. Two holes will need to be drilled per side. Mount using four 1/4" x 1" bolts, locks and nuts.



Wind guard stops

Installation kit 4494B for Challenger LB33, Hesston 4760, and New Idea 7333 balers

Remove the two 3/8" carriage bolts that connect the wrapper extension to the angle support on each side. Place the brackets 001-4436DL and 001-4436DR between the angle support and the wrapper extension. Replace the bolts with 3/8" x 1 1/4" carriage bolts, nuts, locks, and flat washers. Before tightening pull down on wrapper extensions so when tightened the bolts are in the top of the wrapper extension slot. Install the wind guard stops 001-4436S as shown below. Two holes will need to be drilled per side. Mount using four 1/4 x 1" bolts, locks and nuts.

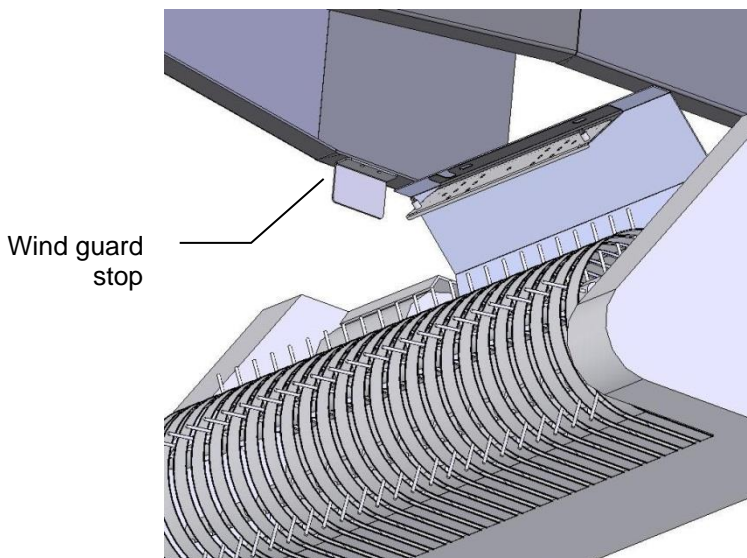


Wind guard stops

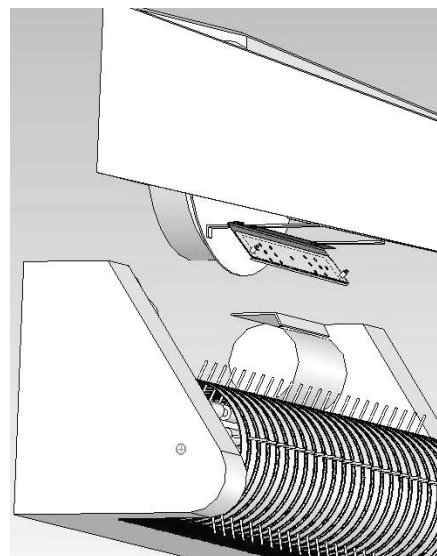
Installation kit 4495B & 4528B for New Holland 590 through BB9080, Case IH LBX331 through LB 433 balers and Krone VFS 88 and 128 with cutter

New Holland and Case: Install the spray shield under the tongue of the baler, behind the flywheel. There are two existing bolt holes 6" to 12" above the gathering fork guards, connect the spray shield using these holes. The tips should be pointing to the throat of the baler chamber. Install the wind guard stop as shown below two inches behind the bend in the baler frame. A parts breakdown of the 4495B install kit is located in the back of the manual.

Krone: Install the spray shield under the tongue of the baler in front of the flywheel. You will need to drill two holes directly in front of the flywheel to secure the shield on the baler. The tips should be pointing to the throat of the baler chamber. A parts breakdown of the 4495B install kit is located in the back of the manual.



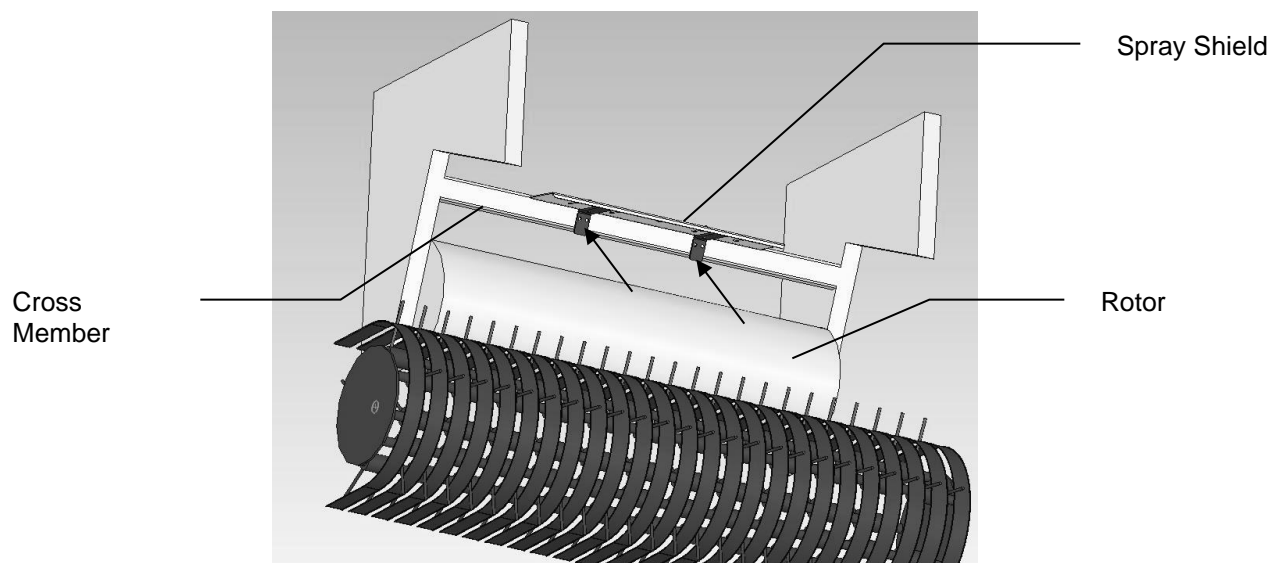
New Holland and Case



Krone

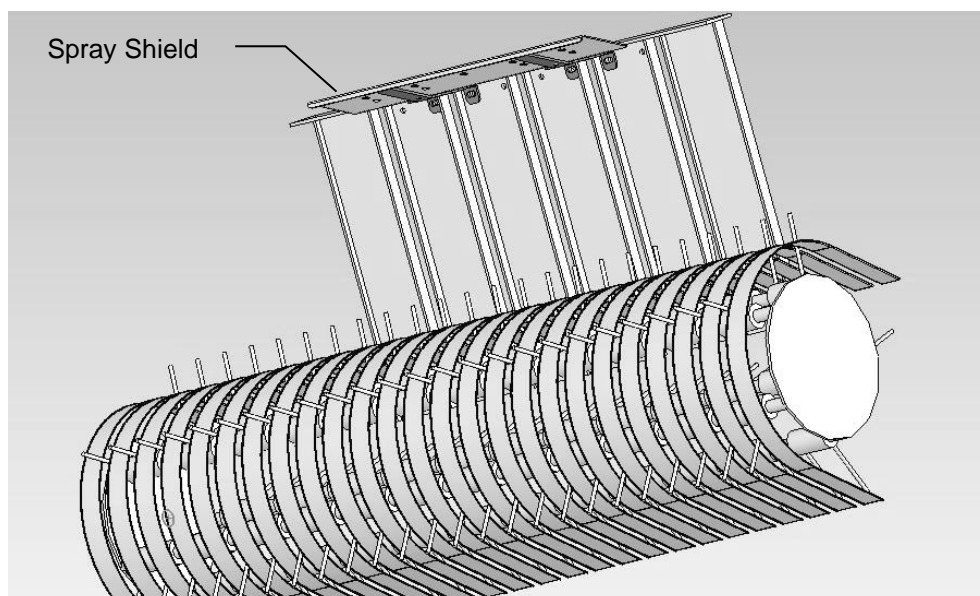
Installation Kit 4497B & 4529B for Case IH LBX and New Holland BB balers with roto-cut

Attach shield to cross member as shown in picture above. Center the shield above the rotor. Four holes will need to be marked and drilled. Use supplied 3/8 x 1 1/4 inch bolts, nuts, and lock washers to attach the shield holders (001-4435E) to the metal cross member directly above the rotor. Attach the spray shield (001-4435ES) to the holders and secure with lynch pins. **The shield is set up for 3X4 balers. Use the inside holes on the shield for 3X3 balers and the outside holes for 3X4 balers.**



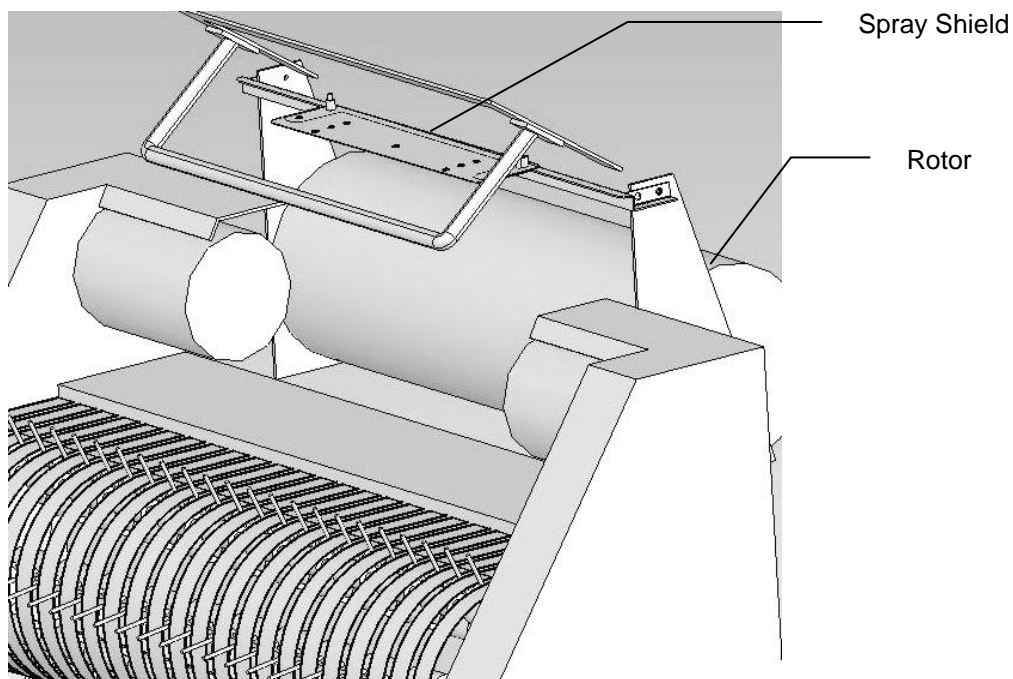
Installation Kit 4498B for Krone VFS 88 and VFS 128 baler

Lower the wind guard of the baler to maximize the installation working space. Locate the guards between the hay intake fingers. Hold the spray shield up so it straddles the top of the guards. Locate the holes on the baler that line up with the spray shield holders. Connect the spray shield to the baler using the existing bolts. Adjust the spray shield so it can be removed and reinstalled freely once the lynch pins are removed.



Installation kit 4499B for Claas 2200/1200/3200/3300/3400

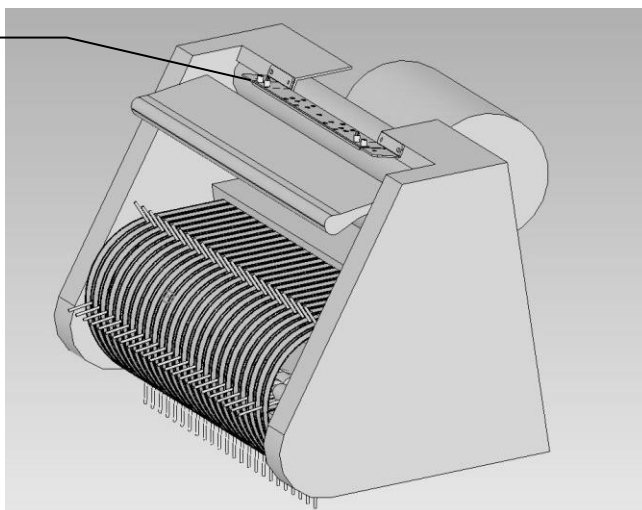
Install the spray shield-mounting bracket between the two flat vertical plates above the rotor as indicated in the picture below. Use the existing bolt holes with the hardware from the applicator kit to mount the spray shield bracket to the baler. Fasten the spray shield onto the spray shield bracket already mounted. Route hoses along the spray shield bracket towards the right side of the baler, and then back to the tank. When routing the hose avoid moving parts.



Installation Kit 4500B for Hesston 4760 Baler with Cutter Option

Locate the sheet metal above the top auger. (Figure 1) Locate the two holes through the sheet metal nearest the center of the pickup head. Place two 3/8" x 1 1/4" bolts through the sheet metal with the bolt heads on the bottom side. Place 001-4436CR over the bolts and fasten with 3/8" nuts, locks, and flat washers. Repeat for 001-4436CL on left side of machine. Place spray shield between brackets and tighten hardware.

Figure 1



Installation kit 4501B for Hesston 4790 balers with cutter option

4790 cutter balers with top auger. (Figure 1)

Locate the sheet metal above the top auger. Locate the two holes through the sheet metal nearest the center of the pickup head. Place two 3/8" x 1 1/4" bolts through the sheet metal with the bolt heads on the bottom side. Place 001-4436CR over the bolts and fasten with 3/8" nuts, locks, and flat washers. Repeat for 001-4436CL on left side of machine. Place spray shield between brackets and tighten hardware.

4790 cutter balers without top auger. (Figure 2)

Connect spray shield to 001-4436CR and 001-4436CL brackets. Place the assembly across the top of the pickup head so the spray shield is horizontal. Center the shield over the throat of the baler directly above and centered over the bottom augers. Mark the holes on both sides and drill two 7/16" holes on each side. Place two 3/8" x 1 1/4" through the sheet metal bolt heads down. Secure the assembly with 3/8" nut, locks, and flat washers.

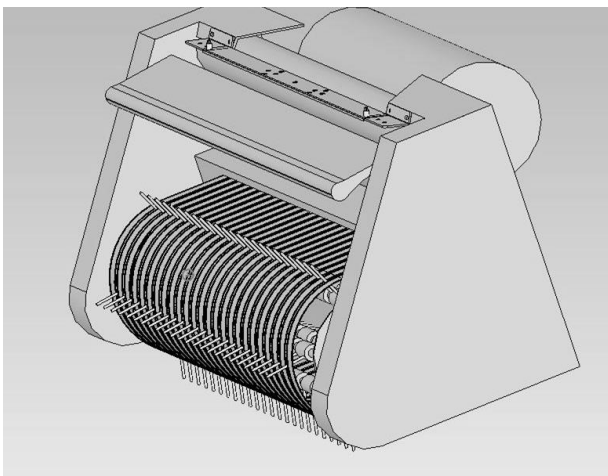


Figure 1

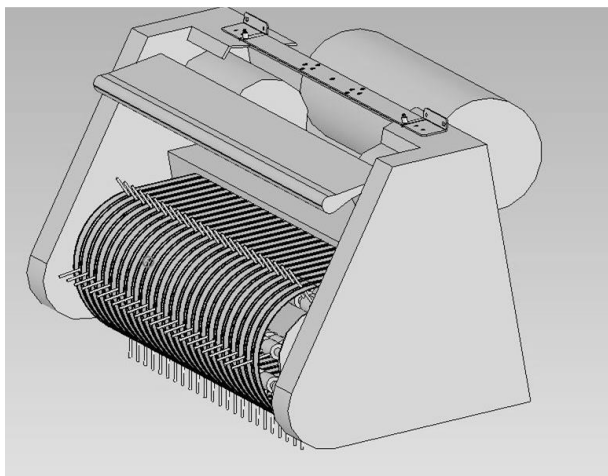


Figure 2

Installation Kit 4509 for Claas 2100 Baler with cutter option

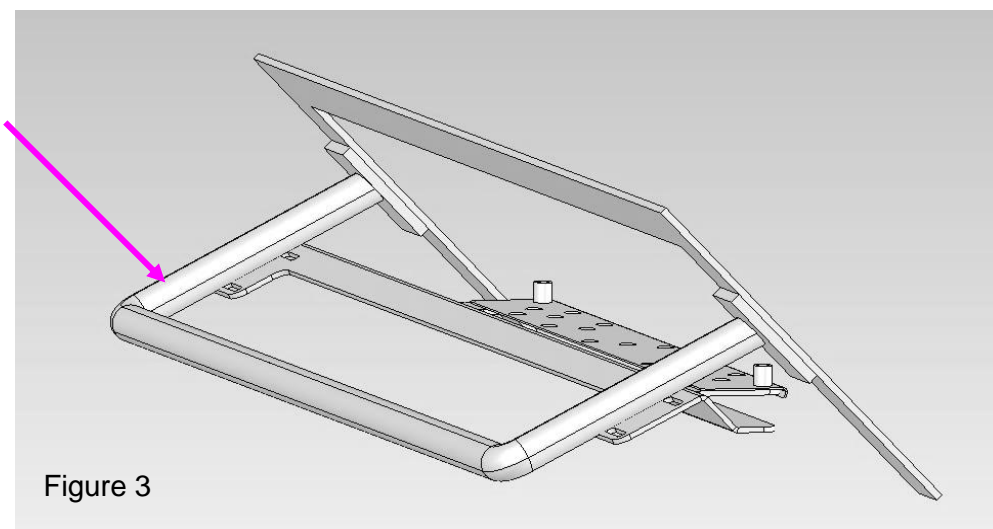
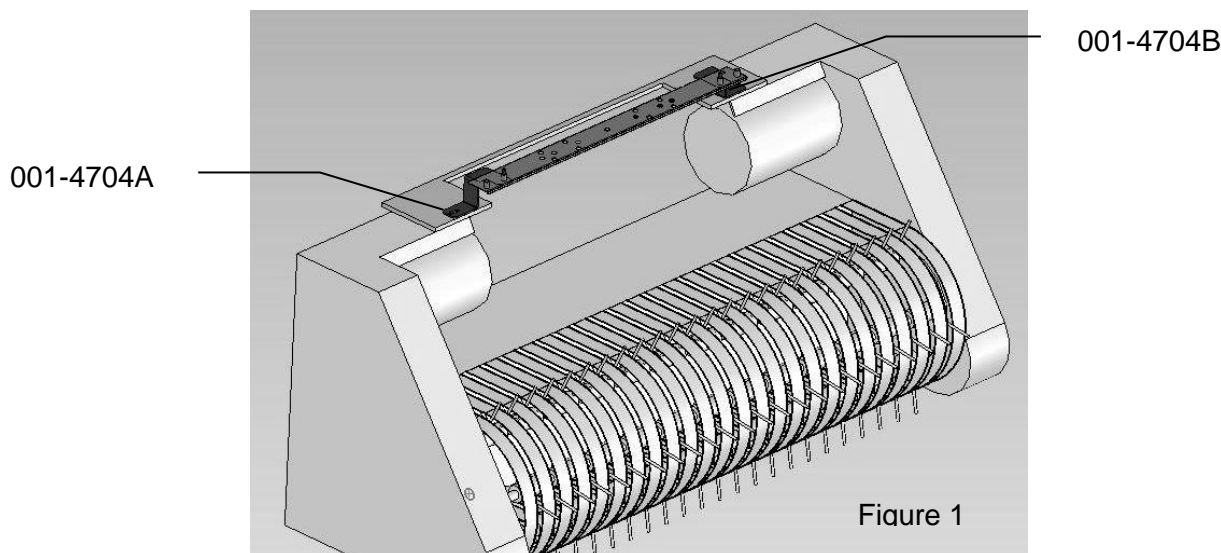


Figure 3

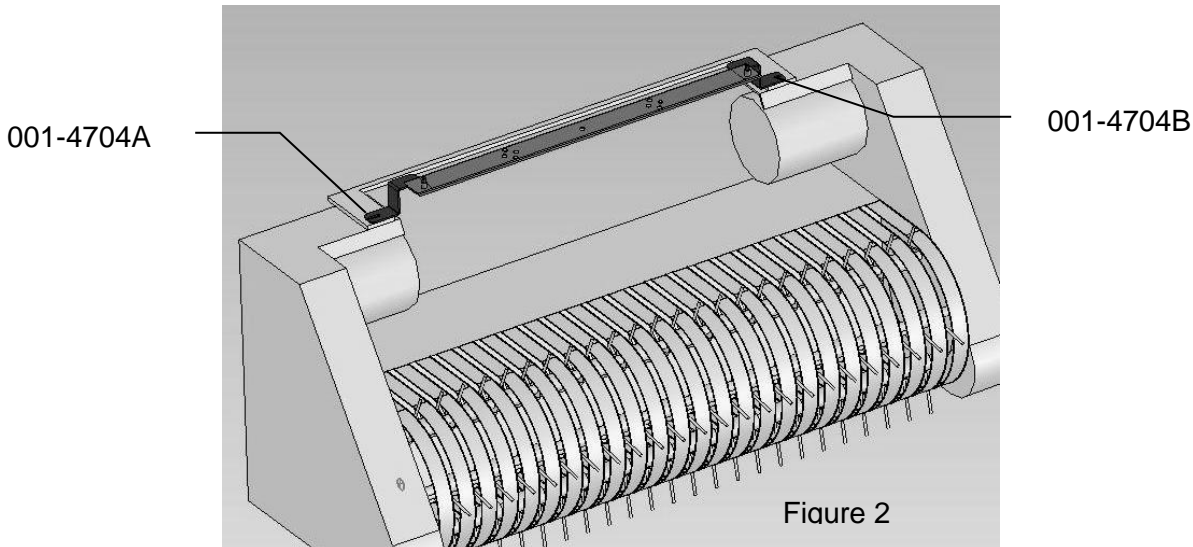
Locate the curved tube (Figure 3) above the auger and rotary cutting system. Attach Shield holder (001-4440A) using the four supplied u-bolts, nuts, flat and lock washers. Slide shield back as far as the baler will allow and tighten down all mounting hardware. Install spray shield (001-4810) and use the two lynch pins (008-4576) to secure.

Installation Kit 4510B for Kuhn LSB 870 – 890, Vicon LB8200 baler & Taarup 6570 – 6570 OC



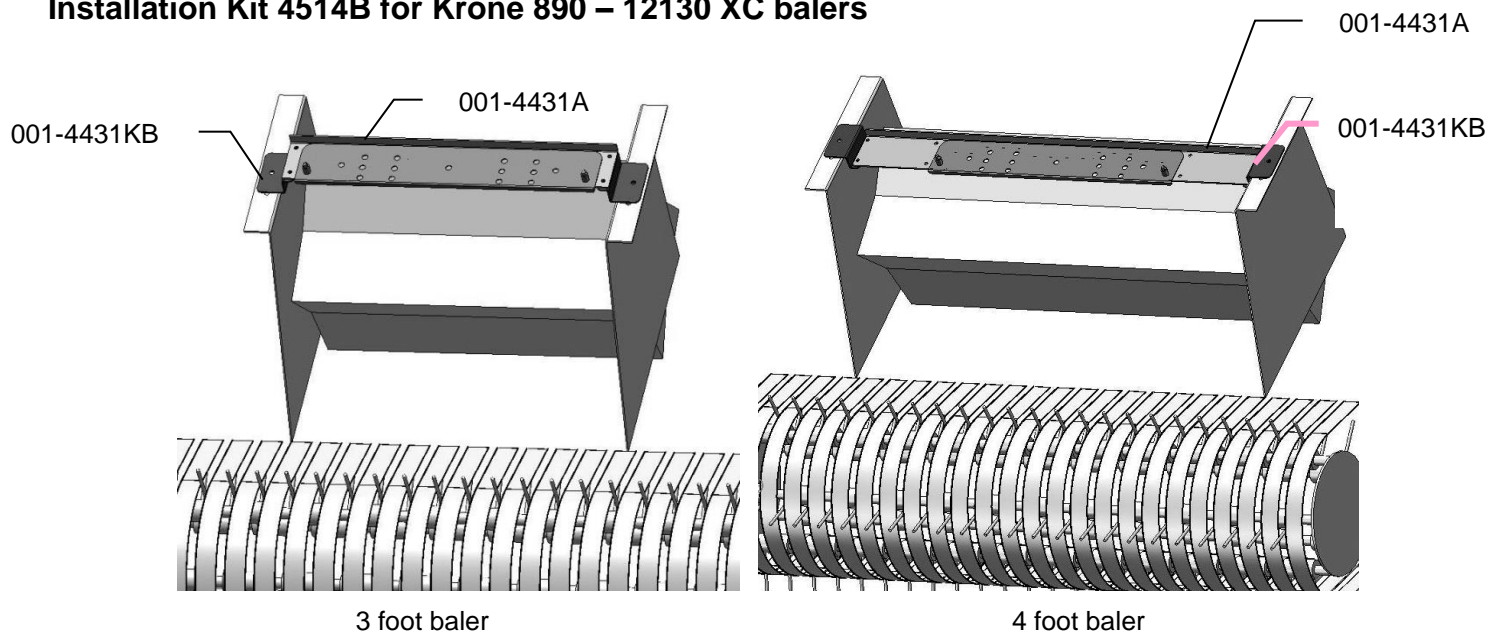
Locate the sheet metal above the pickup head. (Figure 1) Connect spray shield to 001-4704A and 001-4704B brackets. Place the assembly across the top of the pickup head so the spray shield is horizontal. Center the shield over the throat of the baler directly above and centered over the bottom augers. Mark the holes on both sides and drill two 7/16" holes on each side. Place two 3/8" x 1 1/4" through the sheet metal bolt heads down. Secure the assembly with 3/8" nut, locks, and flat washers.

Installation Kit 4511B for Kuhn 1270 – 1290, Vicon LB12200 baler & Taarup 6670 – 6690 OC



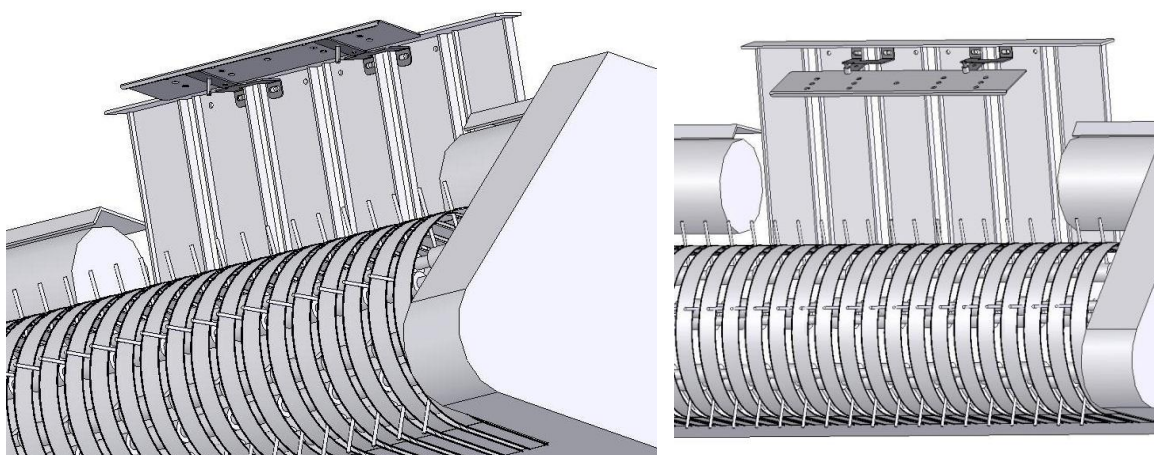
Locate the sheet metal above the pickup head. (Figure 2) Connect spray shield to 001-4704A and 001-4704B brackets. Place the assembly across the top of the pickup head so the spray shield is horizontal. Center the shield over the throat of the baler directly above and centered over the bottom augers. Mark the holes on both sides and drill two 7/16" holes on each side. Place two 3/8" x 1 1/4" through the sheet metal bolt heads down. Secure the assembly with 3/8" nut, locks, and flat washers.

Installation Kit 4514B for Krone 890 – 12130 XC balers



Locate the two mounting brackets (001-4431KB). In the 4' baler, these brackets are positioned so the spray shield is dropped down from the flywheel. On the 3' baler, these brackets are positioned using the top hole on each side to raise the spray shield up from the rotor. Use the top hole on the baler for mounting the brackets. These brackets will be secured with two 3/8" x 1" bolt and flats, locks, and nuts. Then the spray shield holder (001-4431KA) spans across the throat of the baler and bolts to mounting brackets so the pins are on the top side. The holder has a formed flange on the backside that should be flush with the back of the mounting brackets. The shield holder will be fastened to the mounting brackets with four 5/16x1" bolts with flats, locks and nuts (2 on each side). In the case of the 3' balers, there are additional holes for mounting the holder to the brackets. For 3' wide balers 7-1/2" will need to be cut off the ends the shield holder. Place the spray shield assembly on top of the shield holder and secure with lynch pins.

Installation Kit 4515B for Krone 890 – 12130 balers

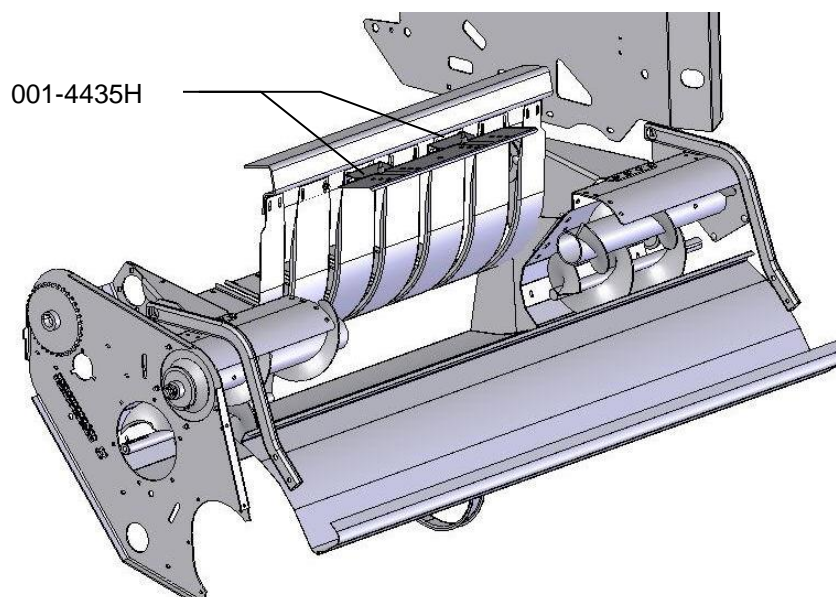


Non-HDP balers

All HDP balers

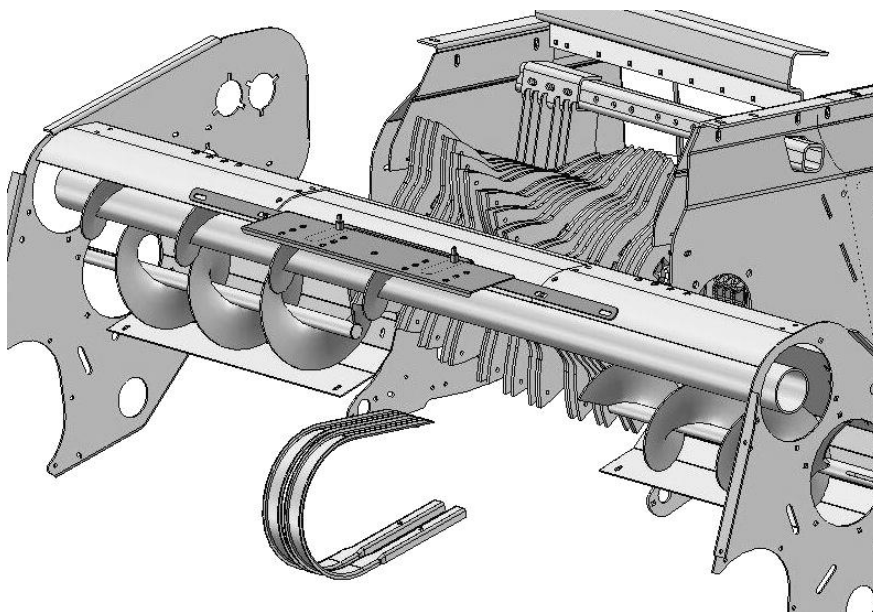
Locate the four center stuffer guards (on narrower models of baler, there may be only four stuffer guards). Remove the nuts and bolts indicated above that fasten the stuffer guards to the cross member above the baler throat. Replace the hardware that you removed with the hardware included in the parts bag (M10x30 bolts, M10 lock washers, and M10 nuts) and bolt the spray shield holder (001-4435K) in place as shown above. Use the above pictures to determine the position of the spray shield holder depending on baler type. Position the spray shield (001-4435ES) on top of the spray shield holders with the pins from the spray shield holder extending through the pipes welded to the spray shield. Adjust the spray tips so they point towards the throat of the baler. Adjust the spacing of the spray shield holder as needed and tighten the hardware.

Installation Kit 4518B for Agco large square balers without cutter



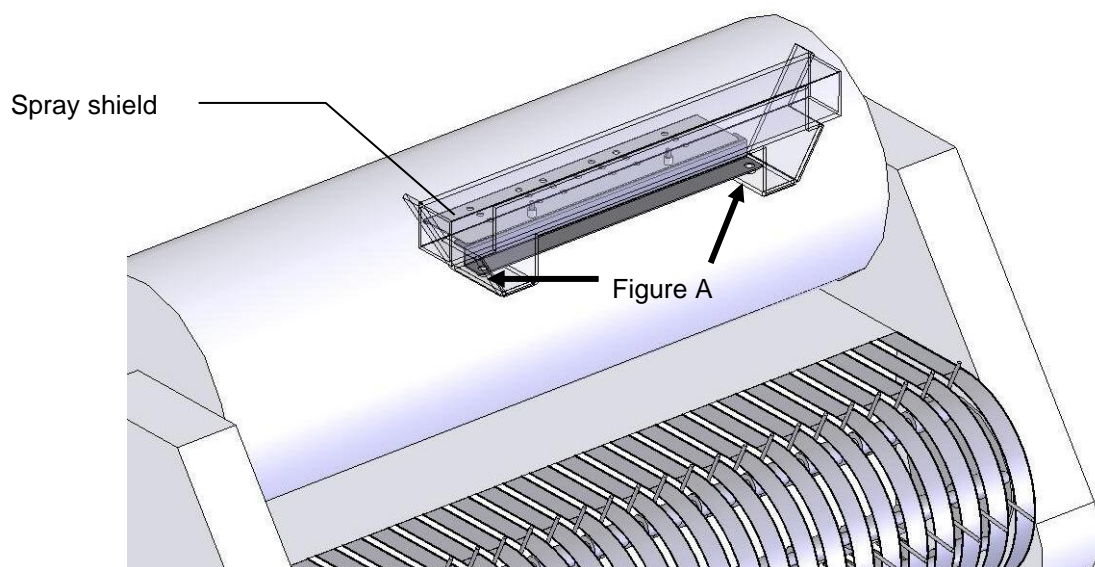
Remove the four bolts attached to the wrapper stripper plates as shown above. Replace with the four supplied $\frac{3}{8} \times 1 \frac{1}{4}$ carriage bolts, nuts, locks, and flat washers. Mount the spray shield holders (001-4435H) and loosely tighten down hardware. Install spray shield and secure with the two supplied lynch pins. Tighten all hardware. Use the inside slots on 3x3 balers and the outside slots on 3x4 and 4x4 balers.

Installation Kit 4519B for Agco large square balers with cutter



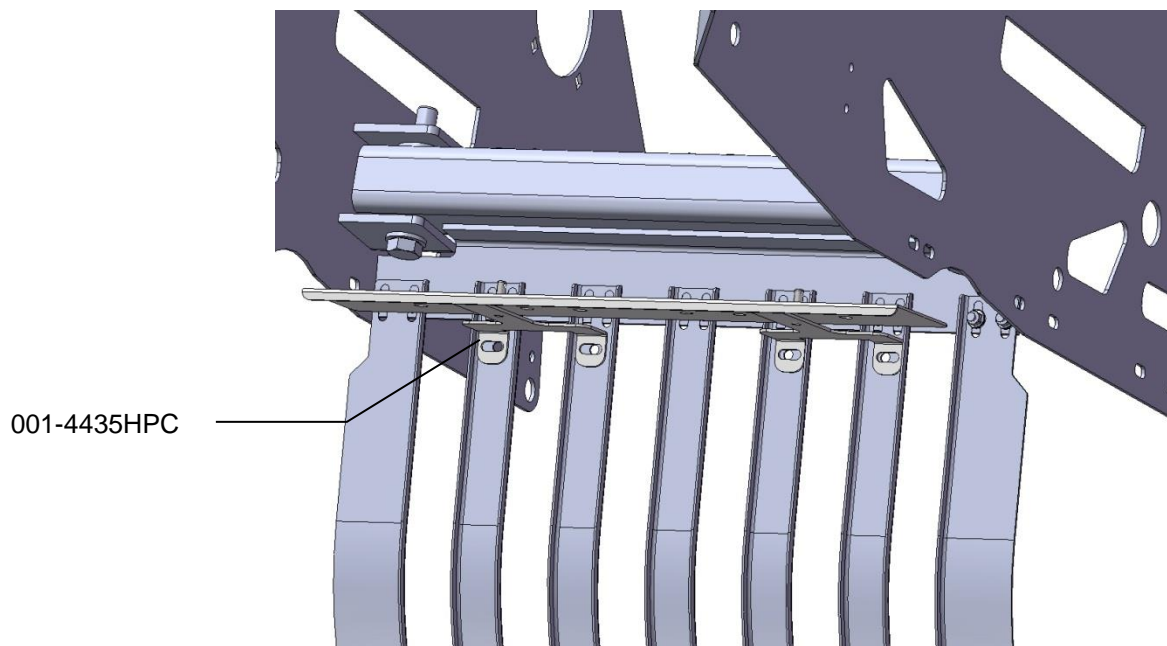
Locate bottom hole on each side of center insert over top auger and bolt spray shield and mounting bracket into place using the $\frac{3}{8} \times 1 \frac{1}{4}$ carriage bolts, nuts, locks, and flat washers. Use the inside slots on 3x3 balers and the outside slots on 3x4 and 4x4 balers.

Installation Kit 4525B for Kuhn large square balers with Omni-Cut



Locate the two bolts shown in figure A. Remove bolts and install spray shield holder (001-4435EK). Install bolts and tighten. Install spray shield assembly (001-4435ES) and secure with two supplied lynch pins. Use the inside slots on 3x3 balers and the outside slots on 3x4 balers.

Installation kit 4527B for Massey Ferguson 2150 – 2190 with packer cut



Mount the two spray shield mounting brackets (001-4435HPC) to the baler as shown above. Attach using four 3/8 x 1-1/4" bolts, flats, locks, and nuts. Mount the spray shield (001-4435ES) on top of the mounting brackets and secure with two lynch pins. Use the inside slots on 3x3 balers and the outside slots on 3x4 and 4x4 balers.

7. Plumbing

- A. Locate the three ¼" hoses colored clear, blue, and green. The pumps will need to be connected to specific tips so the pump numbers are as follows: Pump 1 is closest to the filter bowl, pump 2 is in the middle, and pump 3 is the outside pump.
- B. Slide the jaco nut over the end the hose and insert the hose into the jaco fitting and tighten the jaco nut. Because all nozzles on the spray shield are different, the operator will need to install pump 1 to the orange tips using the clear hose, pump 2 to the green tips using the green hose and pump 3 to the blue tips using the blue hose.
- C. **KEEP HOSE AWAY FROM: MOVING PARTS, SHARP METAL, AND HYDRAULIC LINES. WORKING TEMPERATURE FOR THE HOSE IS 140 °F AND UNDER.**
- D. Tie the hose down at secure locations on the baler using the enclosed tie straps and cable clamps.

High and Low Output Tips

Your baler comes with two sets of tips: a low set and a high set. The high set comes factory installed.

-The high set will cover outputs of 84 to 632 lbs/hr (Apprx. 21-63 tons/hr) Install the following tips for high output:

Clear hose to orange tips
Green hose to green tips.
Blue hose to blue tips.

-The low set will cover outputs of 44 to 400 lbs/hr (Apprx. 11-40 tons/hr) Install the following tips for low output:

Clear hose brown tips.
Green hose to orange tips.
Blue hose to green tips.

****Refer to Tip Output under APPLICATION RATE of the control unit to calibrate system.**

8. Installation of star wheel and bale rate harness

First, remove the cover from the star wheel block and use a ¼" nut driver to remove the nut from the electronic swivel. Next, run the star wheel sensor wire through the black grommet and place the eye terminal on the star wheel sensor. Tighten the eye loop with the nut on the sensor and put the star wheel cover back on the base. Next, tighten the grommet to form a tight seal around the wire. The bale rate sensors will be factory installed on the right side twine guard in the correct position. The sensor with the longer sensor wire should say "FRONT", which indicates it should be placed in the front sensor hole. The sensor wire with the shorter wire should say "BACK." The tip of the sensor should be placed no more than ¼" away from the star wheel teeth and no less than 1/8" from the star wheel teeth. Each sensor will have an LED light located on the sensor by the diverter. Once the unit is powered up spin the wheel and make sure that both led lights turn on and off. If they don't turn on and off, adjustments may need to be made. Once the star wheel connection is complete, run the harness along the baler frame to the Precision Information Processor (PIP). (See wiring installation on the following page.) The Precision Information Processor is located on the back of the right twine box.

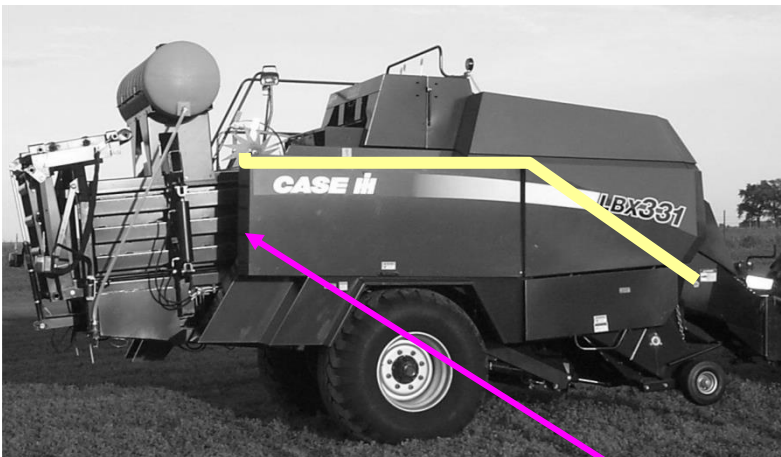
9. Installation of controls

Use the four mounting screws to mount the round base in a convenient area in your cab or on your fender. If unit is mounted on fender it will need to be removed at night and stored in a clean, dry area. Use the Ram mount swivel-positioning nut to tighten the entire assembly. Adjust it so that you can view the entire screen and be able to use the touch screen without interfering with other tractor functions.

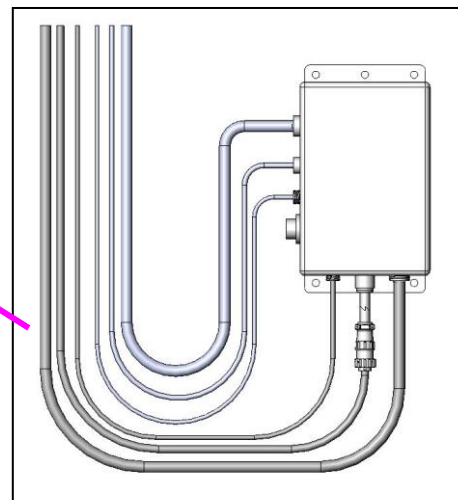
10. Installation of display cable harness

On the bottom of the touch screen display you will find the main display wire plug. The harness (006-5650C) will need to be attached to this plug and run through the cab towards the hitch where it will connect with its matching harness (006-5650D) from the PIP.

11. Main wiring harness and power cord installation



Route cords 006-5650B and 006-5650D along this path or similar inside of the baler. Keep cords away from moving parts and hydraulic hoses. Secure with existing cable clamps or use cable ties. When all connections are made to the PIP secure wires as shown below to allow for water to be shed away from the PIP.

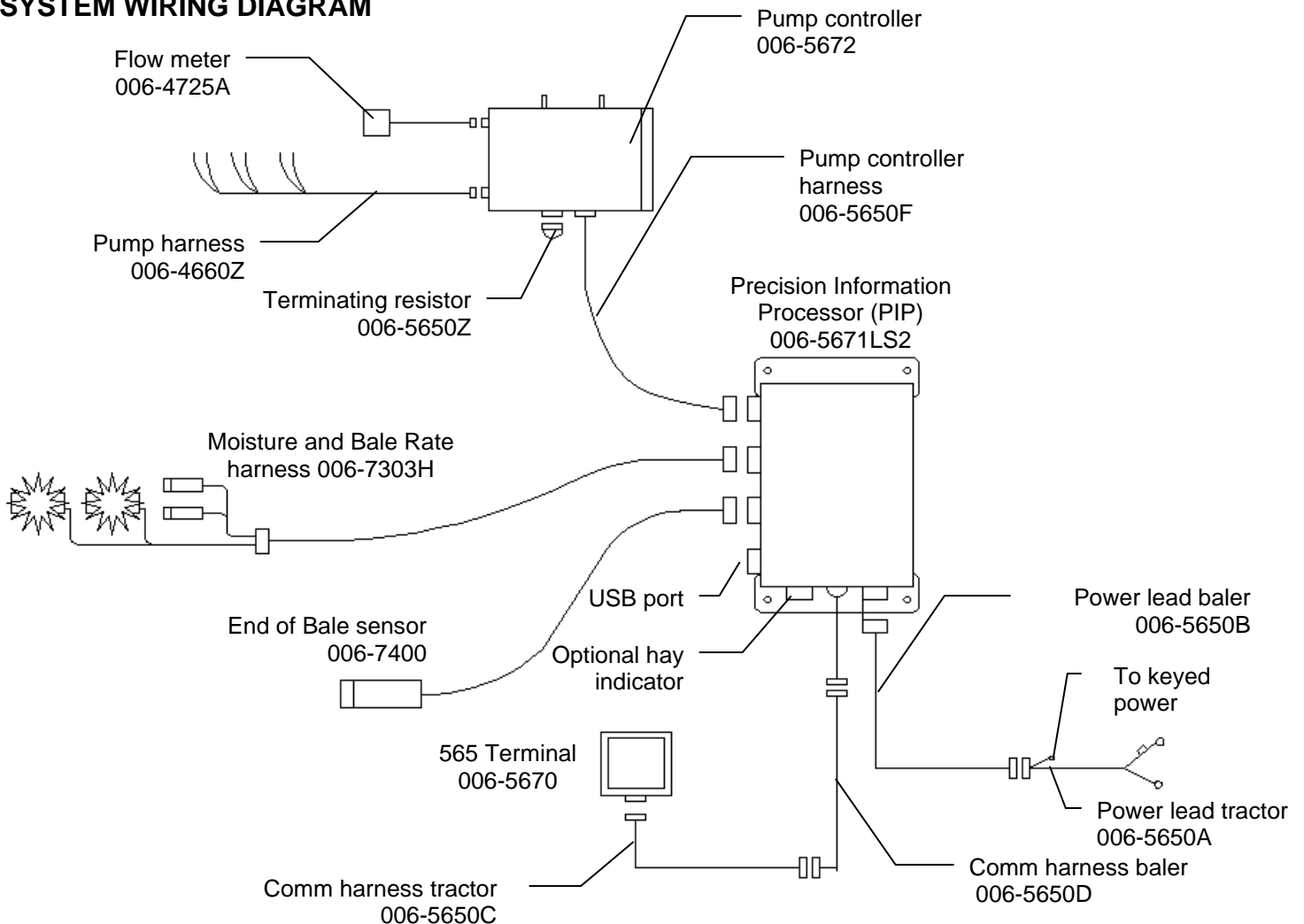


WIRING INSTALLATION

1. Locate the power harness.
2. Connect the power harness (006-5650A) to the battery (12 volt) using the red wire with fuse to the positive side and the black wire to the negative.
 - a. **The power harness must be connected to the battery!** The unit will draw more amps than convenience outlets can handle. Any modifications of the power harness will void systems warranty. IF MODIFICATIONS ARE REQUIRED CONTACT HARVEST TEC FIRST!
 - b. **This unit will not function on positive ground tractors.**
 - c. **If the unit loses power while operating it will not keep track of accumulated pounds of product used and individual bale records.**
3. The power harness (006-5650A) will run from the tractor battery to the hitch. The orange pigtail from the end of the harness (006-5650A) will need to run to a keyed switch using the supplied wire. The power harness (006-5650B) will connect to the tractor power harness (006-5650A) at the hitch. Run the communication harness (006-5650C) from the cab to the hitch. This wire will connect to the communication harness (006-5650D). These wires will run together to the Precision Information Processor (006-5671LS2).
4. Connect flow meter (006-4725A) and pump harness (006-4660Z) to the Pump Controller (PIP).
5. Connect the Pump Controller harness to the PIP and Pump Controller.
6. Install the terminating resistor to the pump controller.
7. If you have the optional Hay Indicator kit connect it to the PIP.
8. Attach moisture and bale rate harness (006-7303H) and the end of bale harness (006-7400) to PIP.
9. Install the Pump Controller in pump plate using 5/16" lock, nut and flat washers.
10. Secure all wires and route the PIP wire as shown on the previous page to allow for water to be shed away from the PIP.



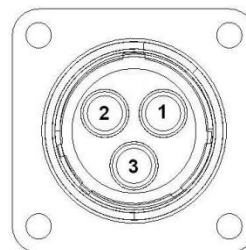
SYSTEM WIRING DIAGRAM



Wiring diagrams

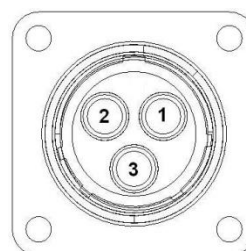
A. Main power connector mounted on battery

Pin 1	Red	+ 12 V input from tractor supply
Pin 2	Black	Ground from tractor supply
Pin 3	Orange	Keyed power



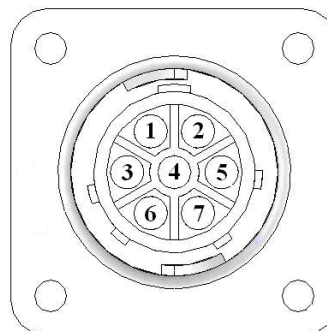
B. Main power connector mounted on PIP

Pin 1	Red	+ 12 V input from tractor supply
Pin 2	Black	Ground from tractor supply
Pin 3	Orange	Keyed power



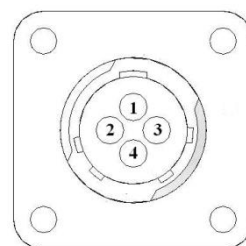
C. Pump connection colors

Pin 1	Black with orange markings	Pump 1 ground
Pin 2	Black with green markings	Pump 2 ground
Pin 3	Black with yellow markings	Pump 3 ground
Pin 4	Not used	
Pin 5	Orange with black markings	Pump 1 positive
Pin 6	Green with black markings	Pump 2 positive
Pin 7	Yellow with black markings	Pump 3 positive



D. Flow meter connection on Pump Controller

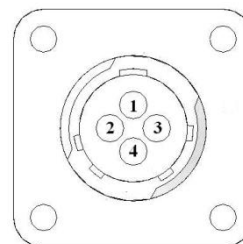
Pin 1	White	5 - 12 V (+) supply
Pin 2	Green	Ground
Pin 3	Brown	Signal
Pin 4	Black	Shield



E. Connector for Hay Indicator option on PIP

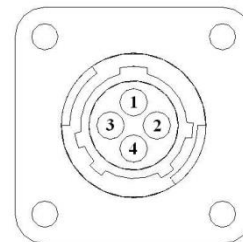
Note: Hay indicators are an option that will turn the system on and off automatically as hay enters the pickup of the baler.

Pin 1	Red	+12V
Pin 2	Black	Ground
Pin 3	White	Signal wire
Pin 4	Not used	



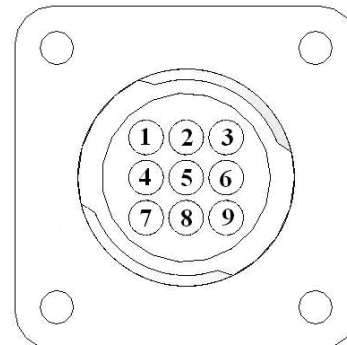
F. End of bale sensor on PIP

Pin1	Brown	Sensor power
Pin2	Blue	Sensor ground
Pin3	Not used	
Pin4	Black	Signal from sensor



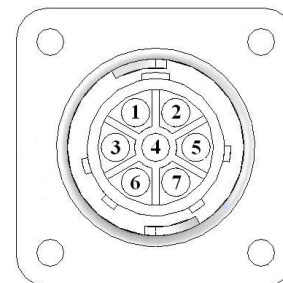
G. Star wheel and Bale rate sensor connector on PIP

Pin 1	Blue	12 volt power
Pin 2	Orange	Ground
Pin 3	Black	Signal for sensor 1
Pin 4	White	Signal for sensor 2
Pin 5	Not used	
Pin 6	Not used	
Pin 7	Not used	
Pin 8	Violet	Star wheel input 1
Pin 9	Brown	Star wheel input 2



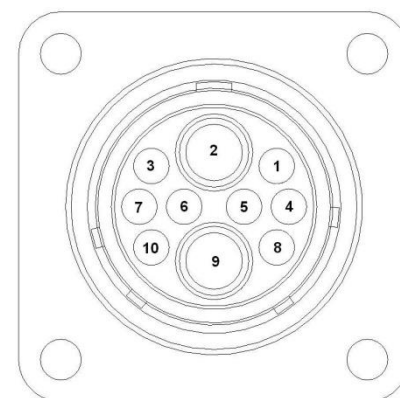
H. Display communication harness on PIP

Pin 1	Orange	Power to display
Pin 2	Blue	Ground to display
Pin 3	Green	Comm channel OH
Pin 4	Silver	Shield
Pin 5	Yellow	Comm channel OL
Pin 6	Not used	
Pin 7	Not used	



I. Communication harness on PIP and Pump Controller

Pin 1	Red	Can 12 volt
Pin 2	Red	Battery 12 volt
Pin 3	Green	Shield
Pin 4	Silver	Comm channel OH
Pin 5	Yellow	Comm channel OL
Pin 6	Not used	Comm channel IH
Pin 7	Not used	Comm channel IL
Pin 8	Black	Can ground
Pin 9	Black	Battery ground
Pin 10	Not used	



Tank, Saddle, and Legs

Vermeer, Claas, and Krone balers with 100 gallon tank



Tank Saddle
Part#:001-6706A

Tank lid
005-9022C

Tank for:
Vermeer, Claas,
and Krone balers

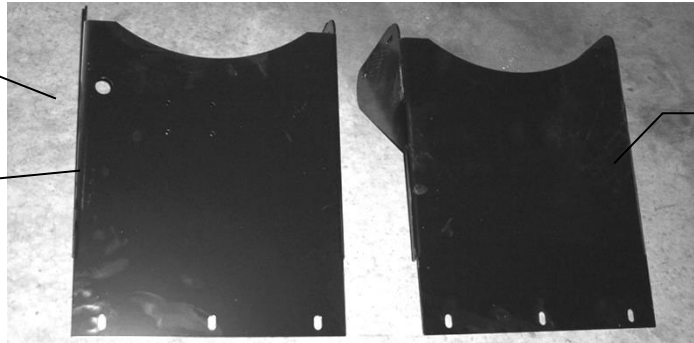


Tank straps
001-4402

100-gl tank
005-9206

Legs for Vermeer, Claas and Krone Balers

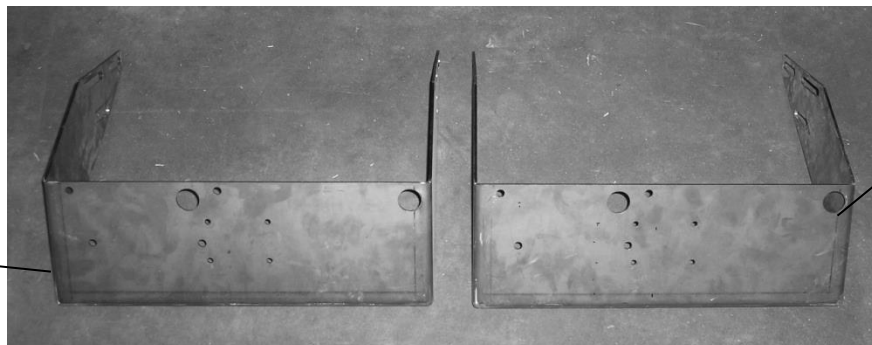
Left Leg
Part #:001-6706V
(5 extra holes)



Right Leg
Part #:001-6706V

Legs for Agco, Hesston, Massey & Challenger

Saddle leg
Part# 001-6707C



Saddle leg
Part# 001-6707C

Legs for New Holland BB940A, BB960A and Case IH LBX 332, LBX 432 series balers with 110 gallon tanks

Not Pictured:
Vicon Leg spacers:
001-6707BS - qty 2
Handrail:
001-6707HR – qty1

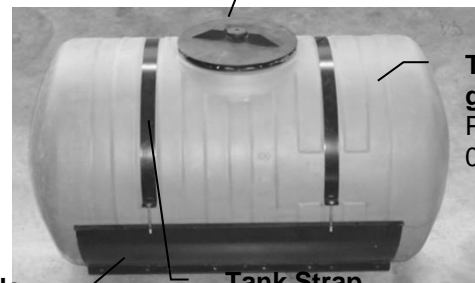
Right Leg Part #:001-6707BR
001-6707DL (2011 and newer 4 ft wide)



Left Leg Part#:001-6707BL
001-6707DR (2011 and newer 4 ft wide)

Tank Saddle
Part#:001-6707A
50

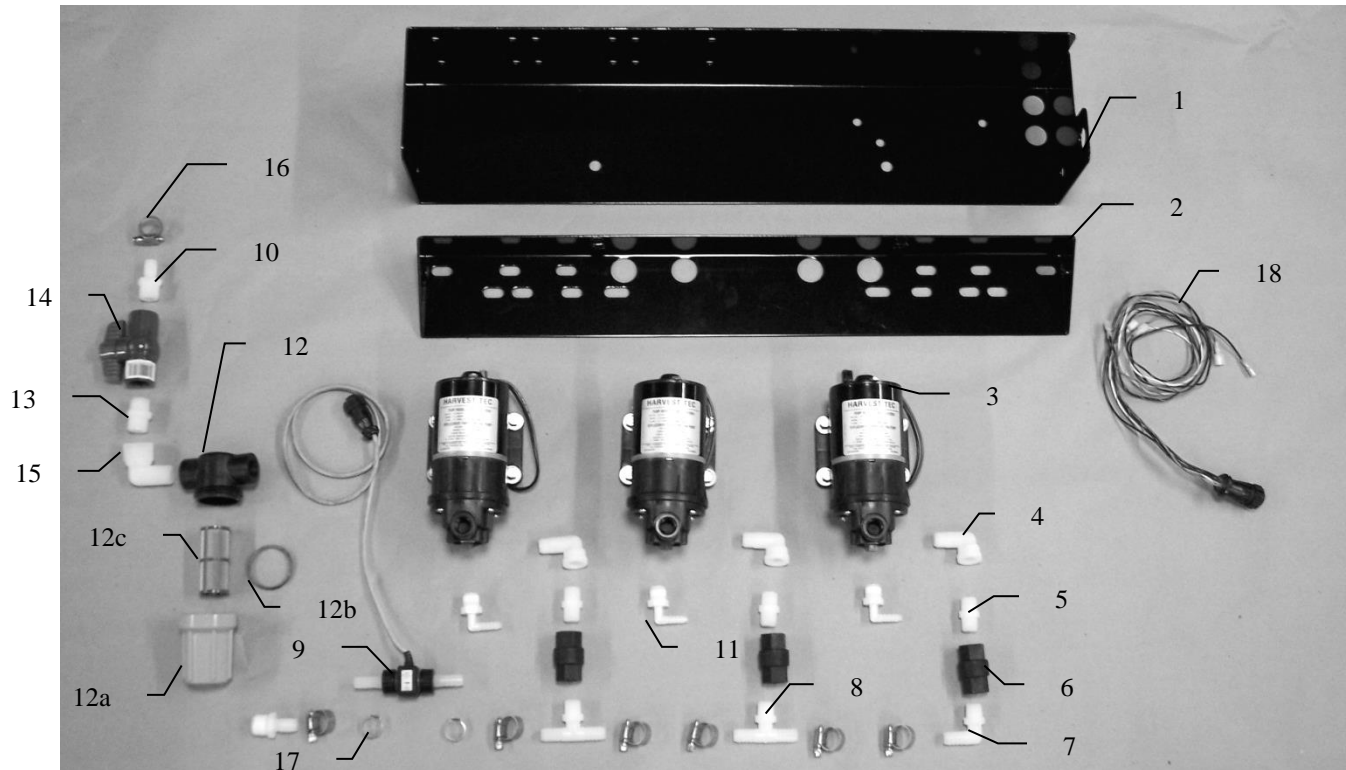
Tank Lid
Part#:005-9022E



Tank-110 gallon
Part#: 005-9208

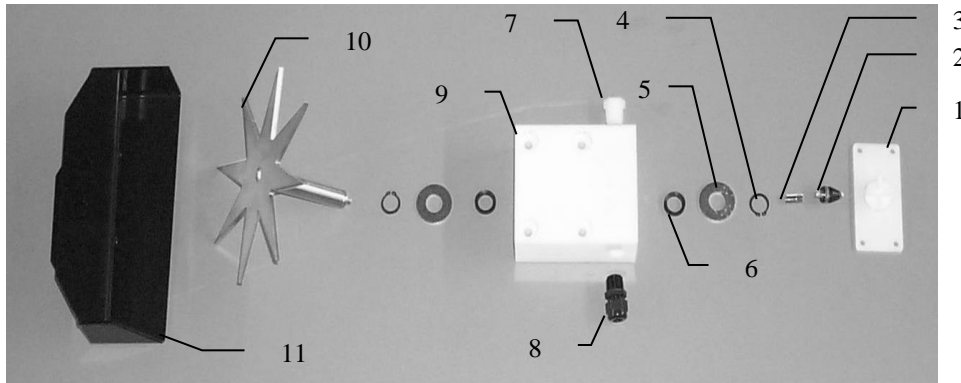
Tank Strap
Part#:001-4402B

Parts breakdown for pump manifold

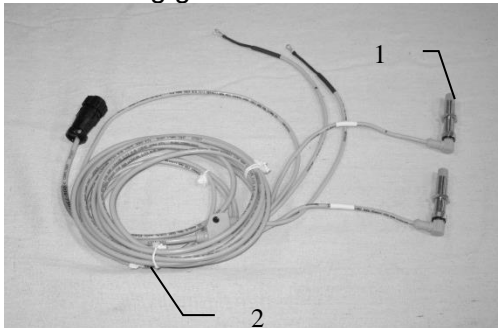


<u>Ref#</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Pump plate	001-4646D	1
2	Mounting Bracket	001-4646C	1
3	Pump	007-4120H	3
4	Street elbow fitting	003-SE38	3
5	Nipple fitting	003-M3838	3
6	Check valve	002-4566F	3
7	Elbow fitting	003-EL3812	1
8	Tee fitting	003-T3812HB	2
9	Flow meter assembly	006-4725A	1
10	Straight fitting	003-A1212	2
11	Jaco fitting	003-JEL1238	3
12	Filter bowl assembly	002-4315	1
12a	Filter bowl only	002-4315F	1
12b	Filter bowl gasket	002-4315D	1
12c	Filter bowl screen	002-4315B	1
13	Nipple fitting	003-M1212	1
14	Ball valve	002-2212	1
15	Street elbow fitting	003-SE12	1
16	Hose clamp	003-9003	7
17	Hose clamp (Flow Meter)	003-9005	2
18	Pump Cable	006-4660Z	1
NP	Elbow	003-EL1212	1
NP	Pump rebuild kit (1 per pump)	007-4581	1
NP	Not Pictured		

Parts breakdown for star wheel moisture sensor

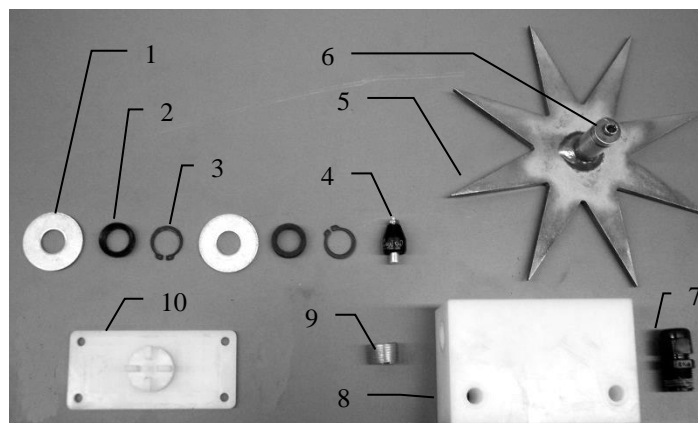


<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1.	Block cover	006-4641B	2	9.	Star wheel block	006-4641A	2
2.	Electronic swivel	006-4642A	2	10.	Star wheel sensor	030-4641C	2
3.	Swivel insert	w/ Ref # 10	2	11.	Twine guard-left	001-4645	1
4.	Snap ring (per side)	006-4641K	2		Twine guard-right (prox)	001-4644	1
5.	Washer (per side)	w/006-4641K	2		Twine guard-left for Agco	001-4645H	1
6.	Dust seal (per side)	w/006-4641K	2		Twine guard-Right for Agco	001-4644H	1
7.	Plug fitting	003-F38	2	1-10	Star wheel assembly	030-4641	2
8.	Wiring grommet	008-0821A	2				



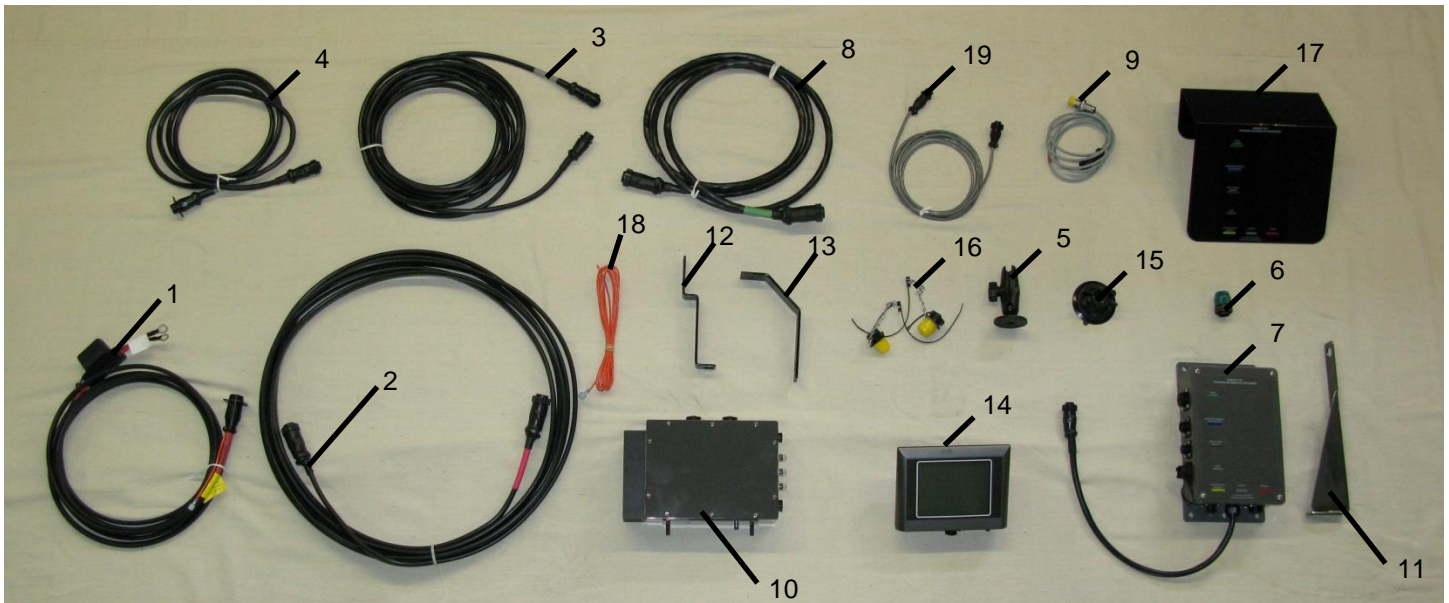
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Bale rate sensor	006-7303S	2
2	Moisture and bale rate harness	006-7303H	1

Vicon & Kuhn balers



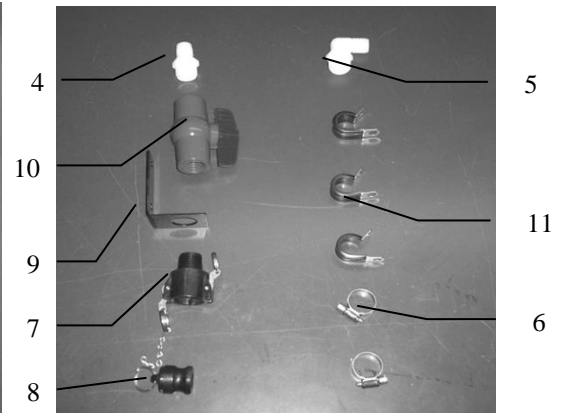
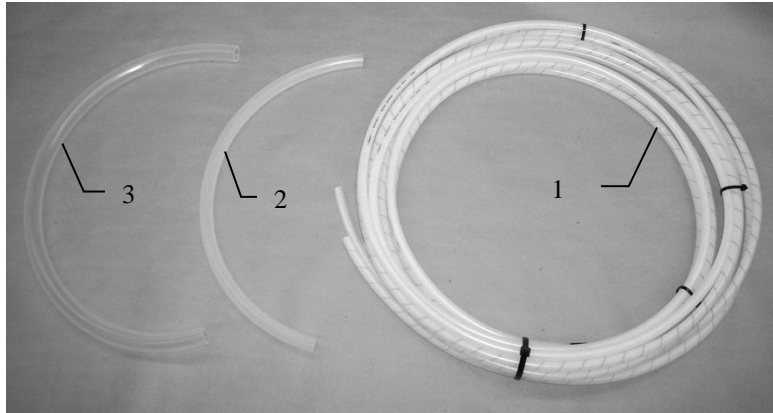
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Washer (per side)	006-4642K	2	6	Insert	w/ Ref # 5	2
2	Dust Seal (per side)	w/006-4642K	1	7	Wiring grommet	008-0821A	2
3	Snap Ring (per side)	w/006-4642K	2	8	Star wheel block	006-4641A	2
4	Swivel	006-4642A	2	9	Plug Fitting	003-F38	2
5	Star Wheel	030-4641E	2	10	Block Cover	006-4641B	2
				1-10	Star wheel assembly	030-4642	2

Parts breakdown for control boxes and wiring harnesses



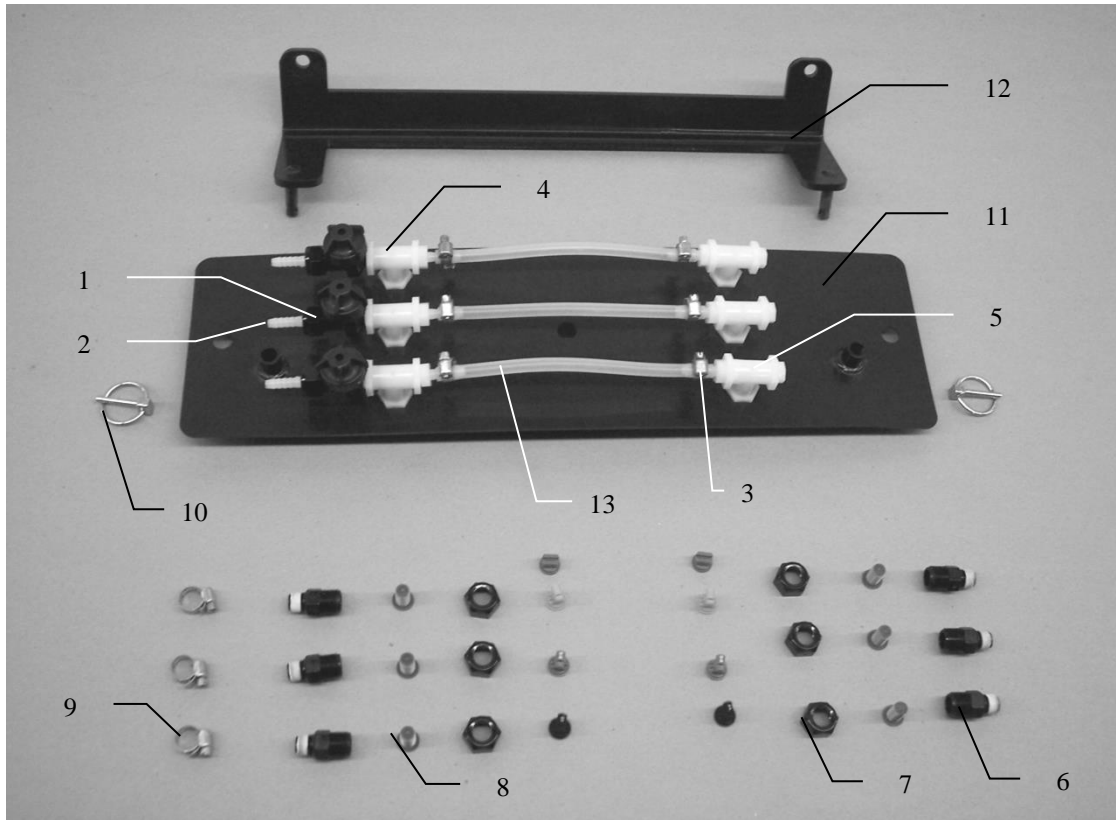
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Power lead tractor	006-5650A	1
2	Power lead baler	006-5650B	1
3	Communication harness (baler)	006-5650D	1
4	Communication harness (tractor)	006-5650C	1
5	Ram mount	001-2012H	1
6	Terminating resistor	006-5650Z	1
7	Precision information processor	006-5671LS2	1
8	Pump controller harness	006-5650F	1
8	Pump controller harness (Krone balers only)	006-5650F2	1
9	End of bale sensor	006-7400	1
10	Pump controller	006-5672	1
11	End of bale sensor bracket	001-4648	1
12	End of bale sensor bracket (Krone)	001-4648K	1
13	End of bale sensor bracket (Krone)	001-4648K2	1
14	Display	006-5670	1
15	Suction cup mount	001-2012SCM	1
16	Dust plug kit	006-5650PLUGS	1
17	PIP shield	001-5650X	1
18	Keyed power	006-5650K	1
19	(Optional) End of bale ext. harness	006-7400EXT	1

Parts breakdown for hose and drain fill line



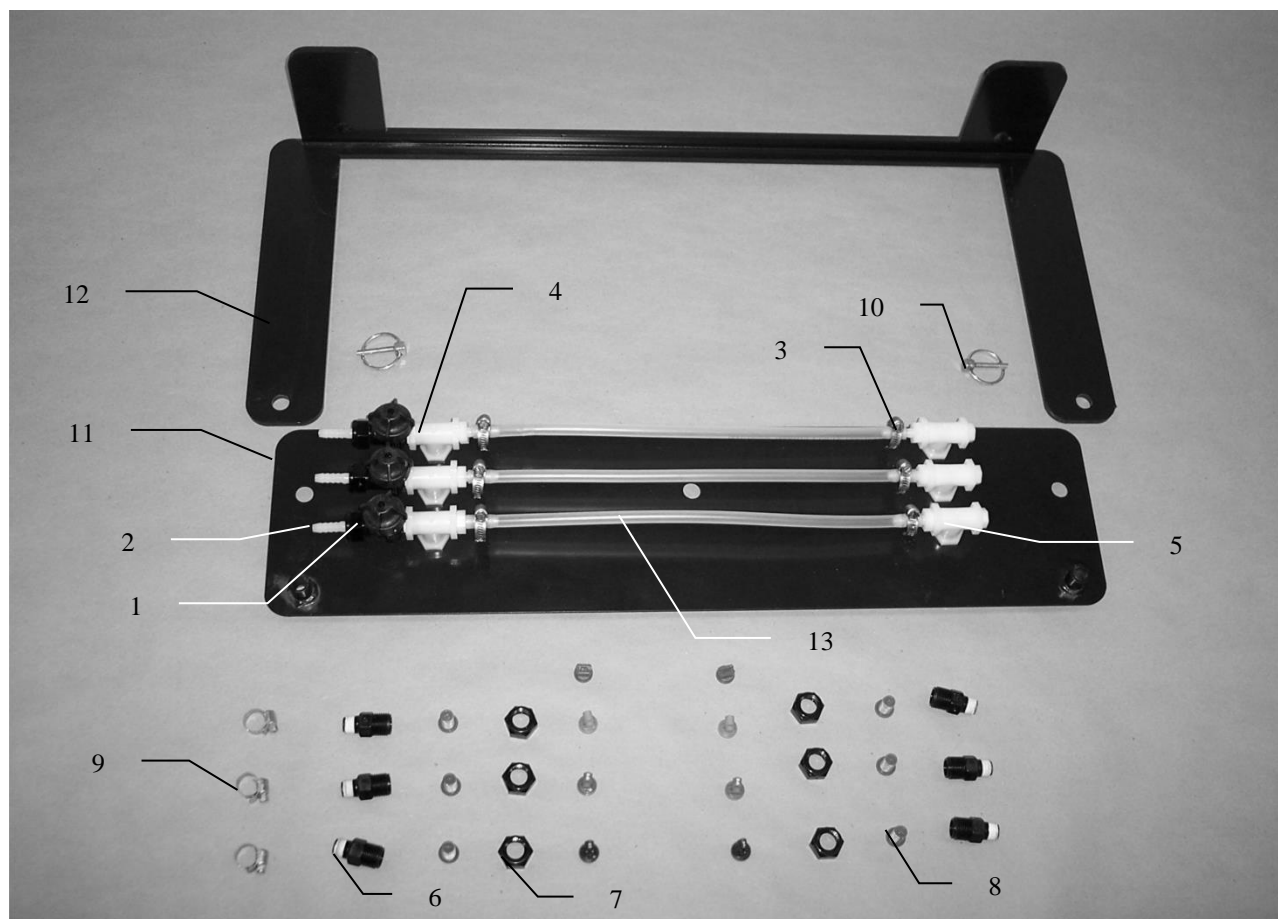
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Triple weld hose (from pumps to tips)	002-9016	35ft	7	Female Coupler	002-2204A	1
		002-9016B	35ft				
		002-9016G	35ft				
	Three hose assembly	030-9016LS	1				
2	1/2" Hose (tank to filter)	002-9001	6ft	8	Male Coupler	002-2205G	1
3	3/4" Hose (tank to drain/fill valve)	002-9002	10ft	9	Valve Holder	001-6702H	1
4	Straight Fitting	003-A3434	1	10	Ball valve	002-2200	1
5	Elbow	003-EL3434	1	11	Jiffy Clip	008-9010	3
6	Hose Clamps	003-9004	2				

4438B Installation kit



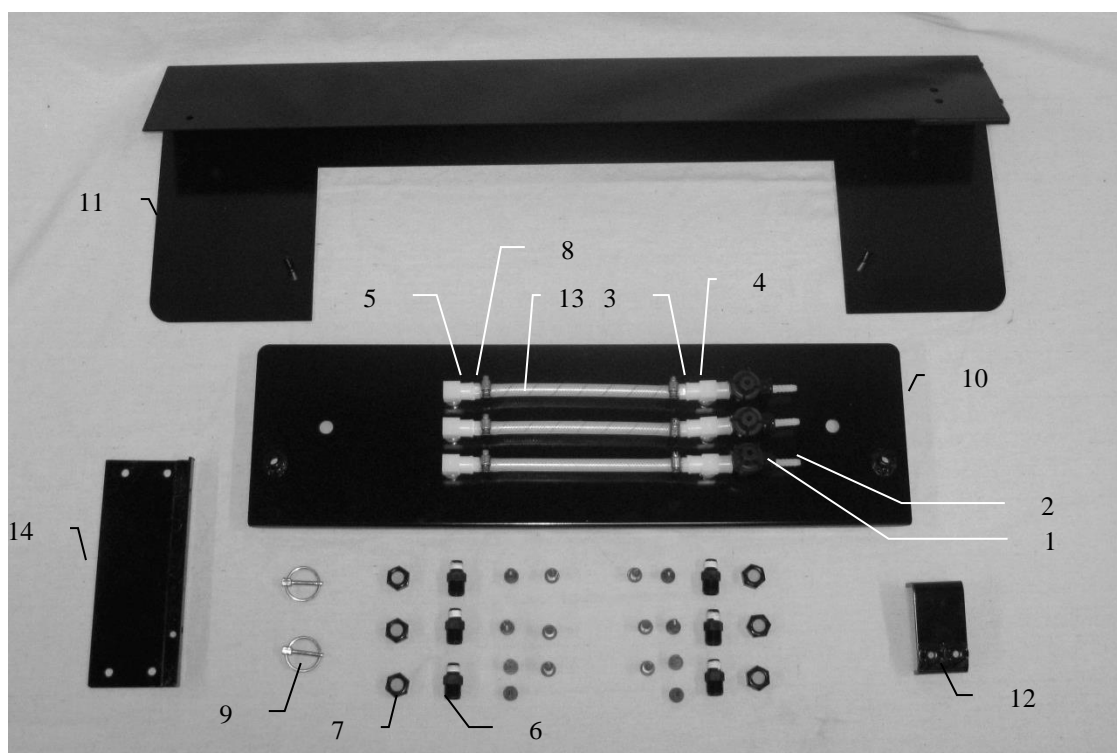
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4438A	1			
12	Mounting bracket	001-4438B	1			
13	Hose – 1/4"	002-9016	3ft			

4439B installation kit



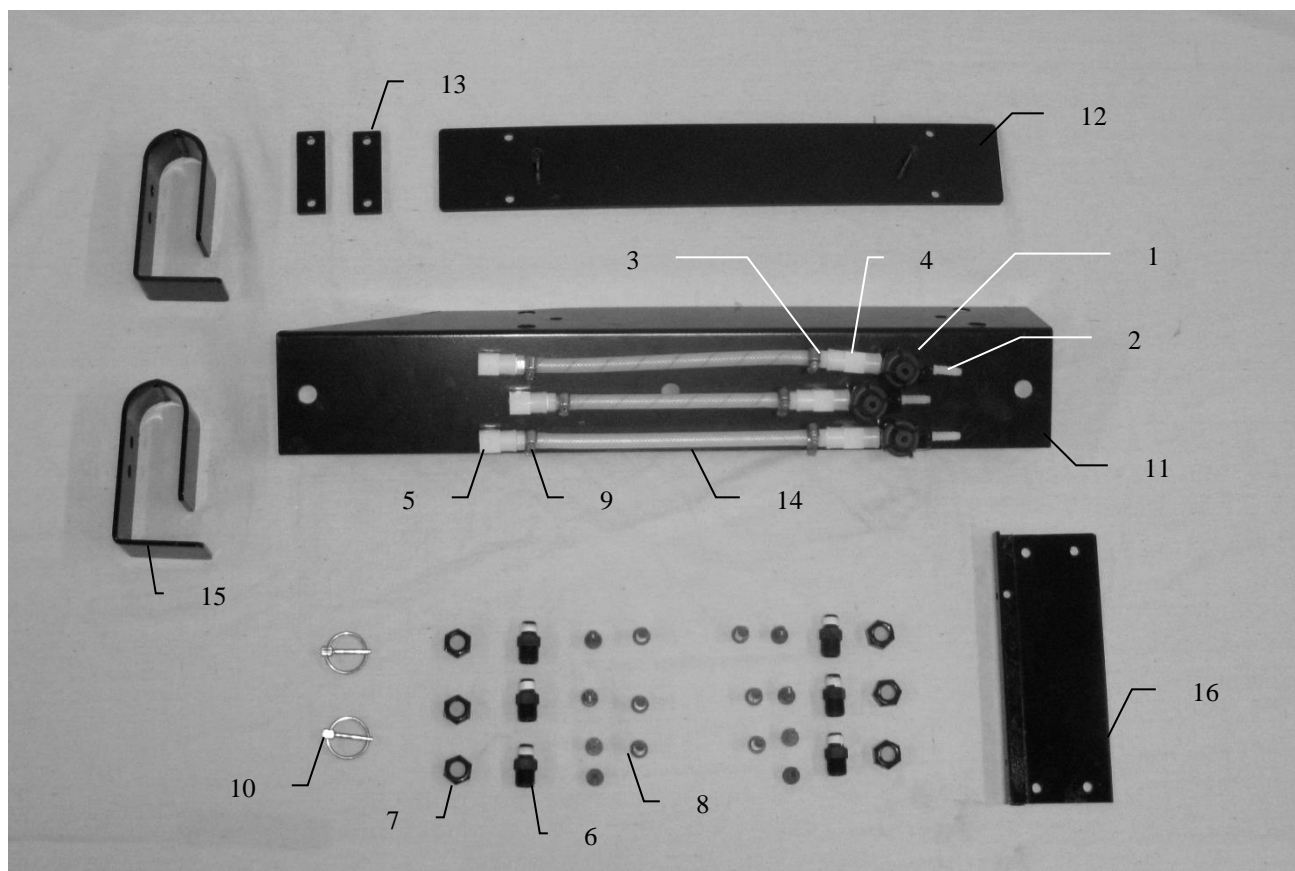
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4439A	1			
12	Mounting bracket	001-4439B	1			
13	Hose – 1/4"	002-9016	3			

4490B installation kit



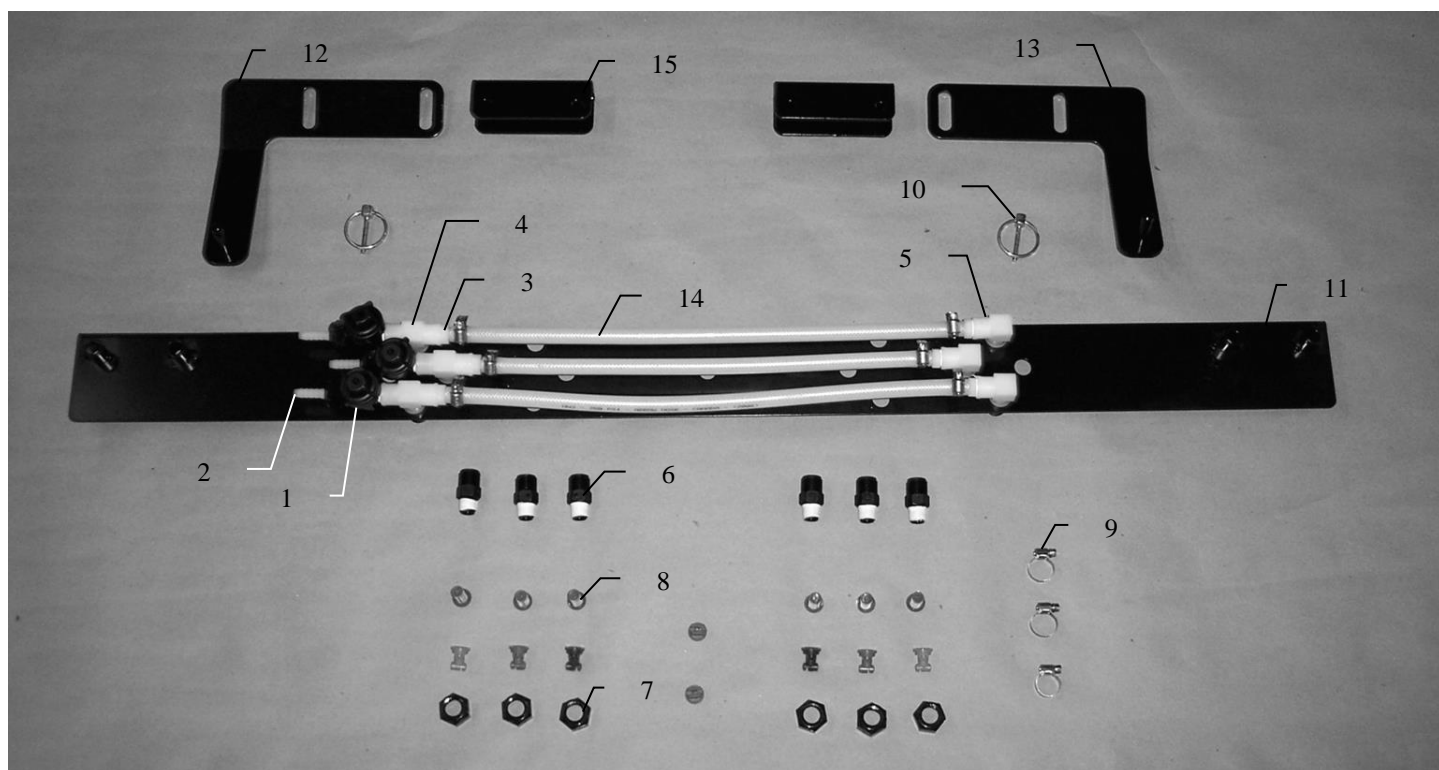
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1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3	Tip strainer	004-1203-100	6
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Hose clamp	003-9002	9			
9	Lynch pin	008-4576	2			
10	Spray shield	001-4421	1			
11	Shield holder	001-4421B	1			
12	Backing plate	001-4421A	1			
13	Hose – 1/4"	002-9016	3ft			
14	End of bale mount	001-4648H	1			

4491B installation kit



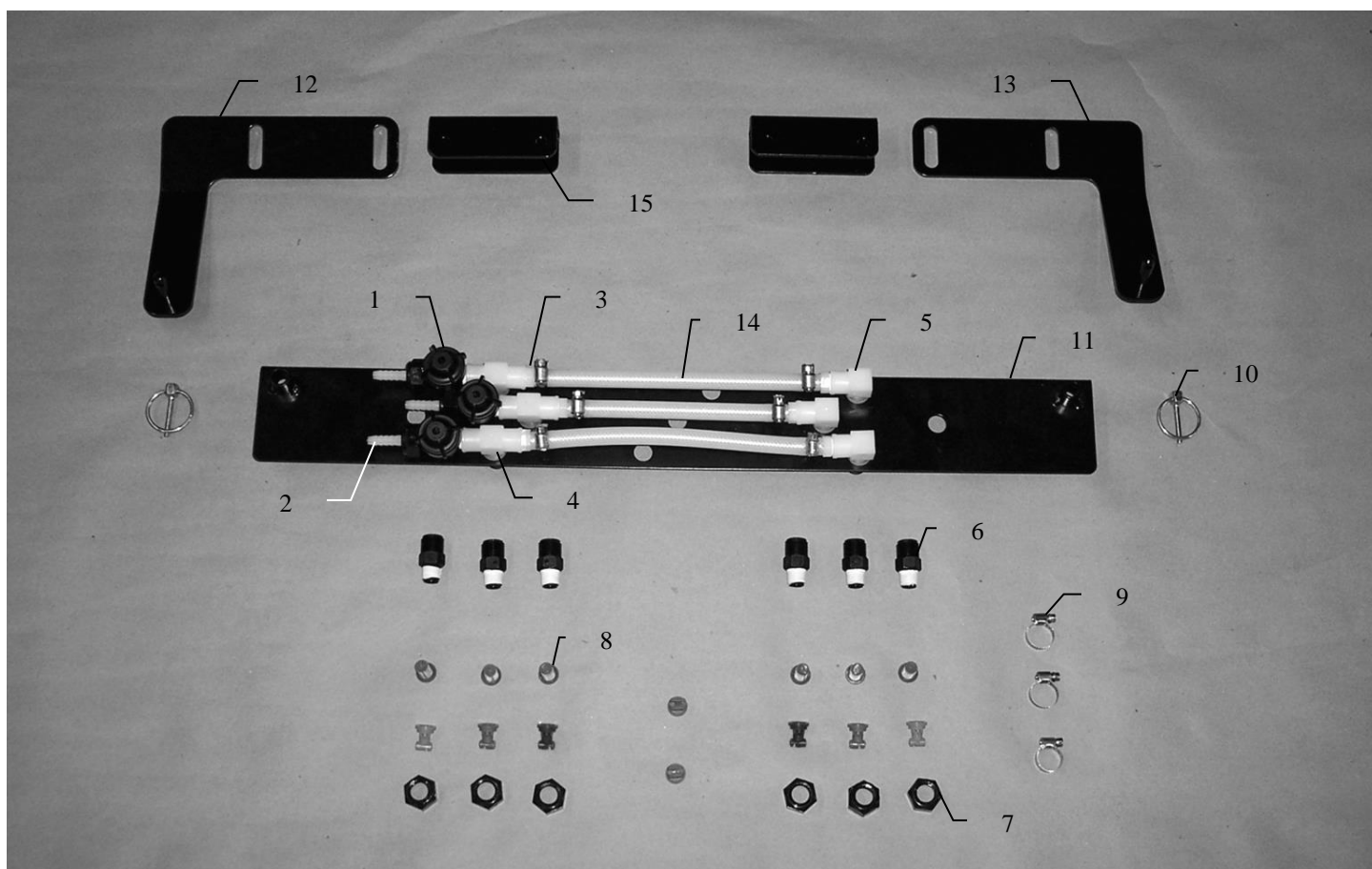
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1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4422	1			
12	Shield holder	001-4422B	1			
13	Backing plate	001-4422A	2			
14	Hose – 1/4"	002-9016	3ft			
15	Ladder bracket	001-6707H	2			
16	End of bale mount	001-4648H	1			

4492B installation kit



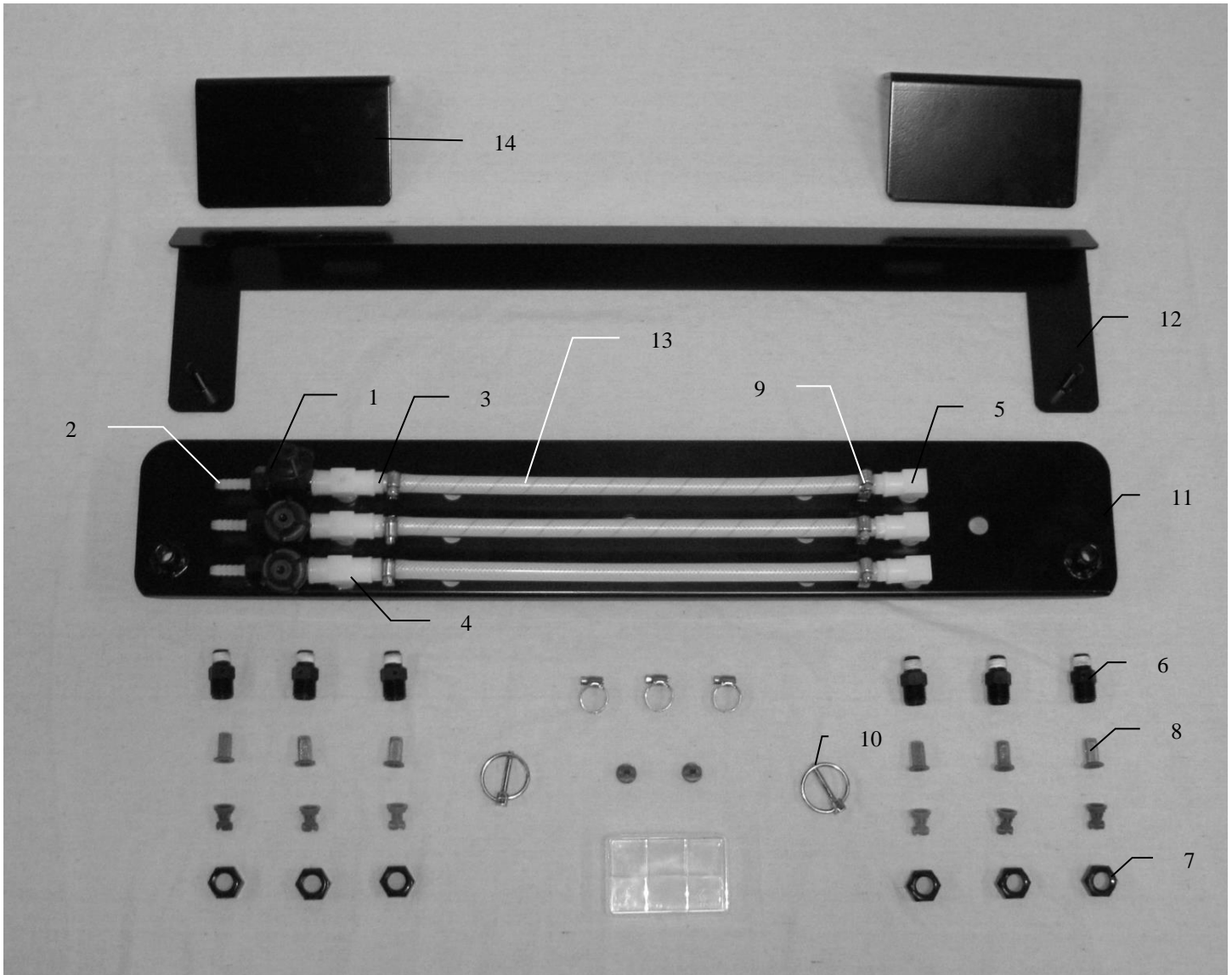
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1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4811A	1			
12	Left shield holder	001-4436DL	1			
13	Right shield holder	001-4436DR	1			
14	Hose – 1/4"	002-9016	3ft			
15	Spacer	001-4436S	2			

4494B installation kit



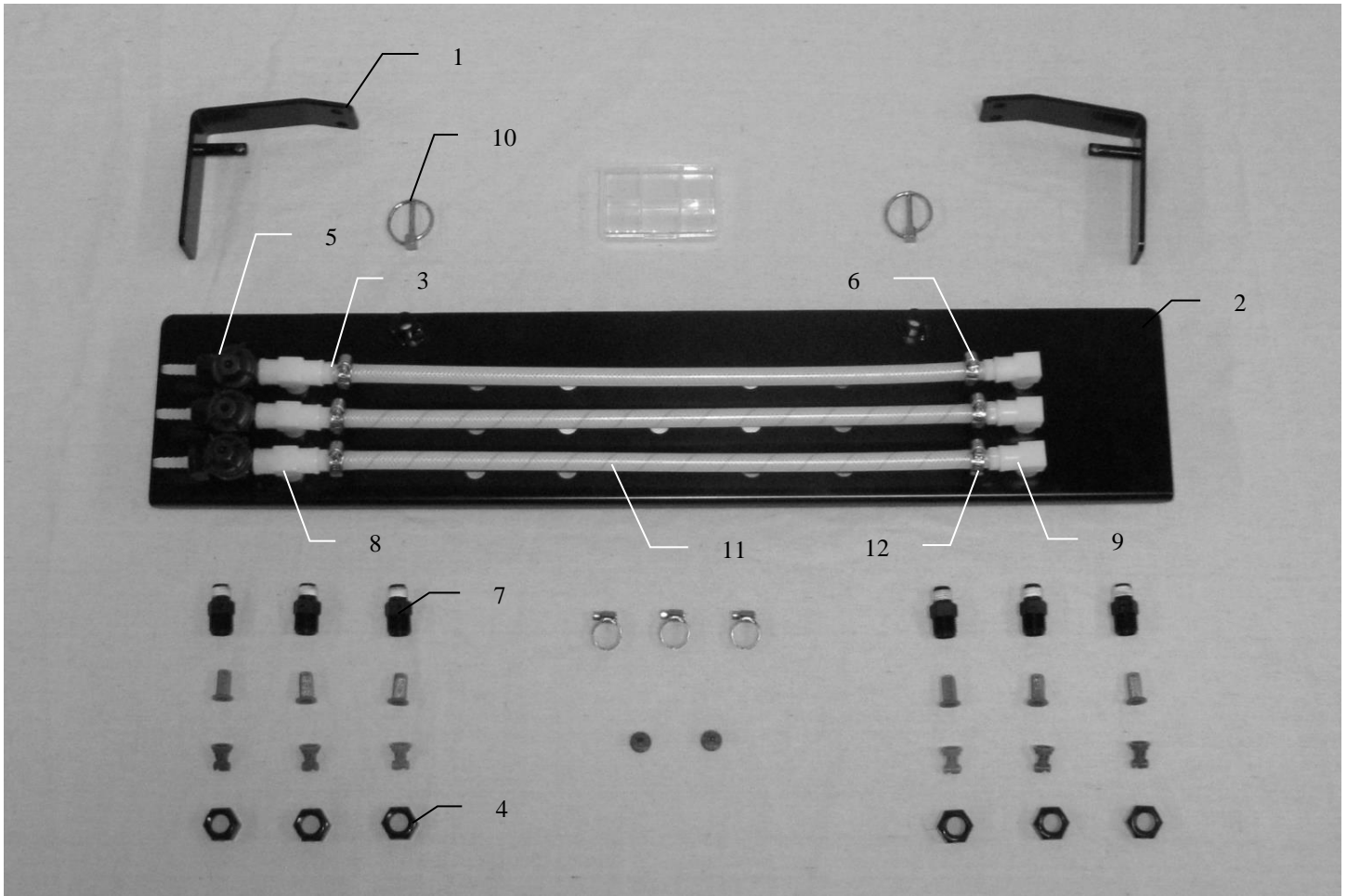
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4810	1			
12	Left shield holder	001-4436DL	1			
13	Right shield holder	001-4436DR	1			
14	Hose – 1/4"	002-9016	3ft			
15	Spacer	001-4436S	2			

4495B & 4528B installation kit



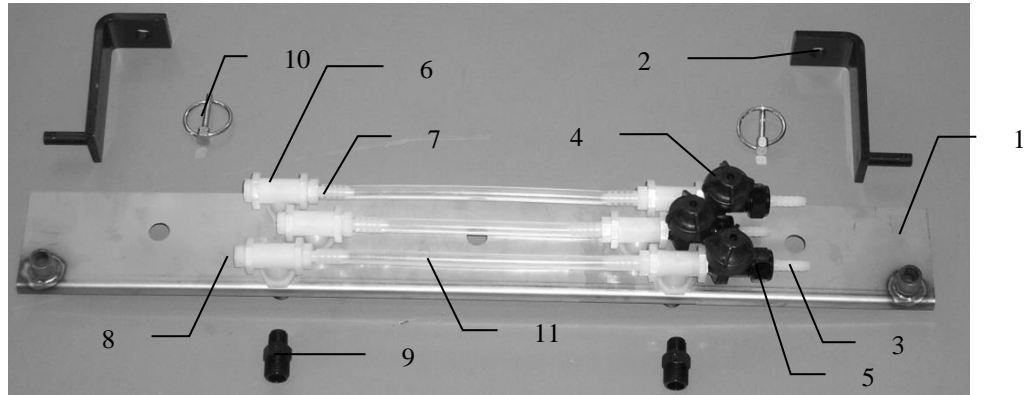
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4431	1			
12	Shield holder	001-4431B	1			
13	Hose – 1/4"	002-9016	3ft			
14	Wind guard stop	001-4431D	2			

4497B & 4529B installation kit



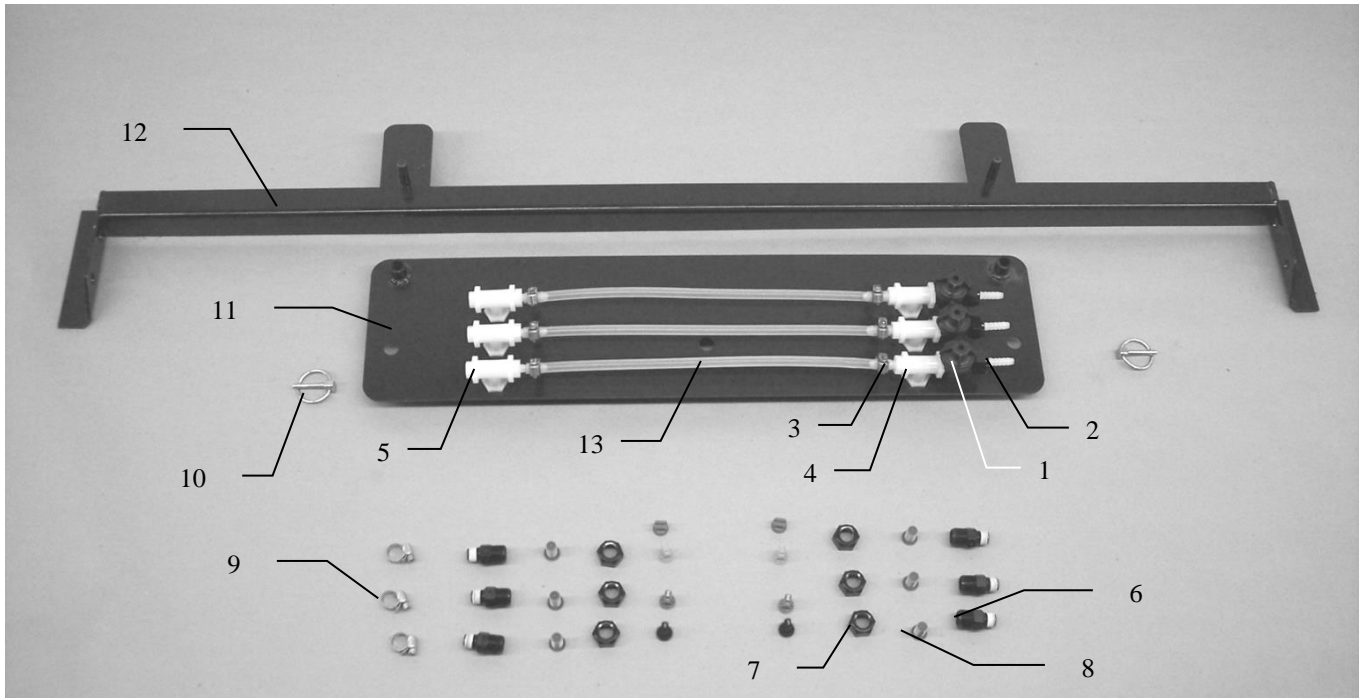
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Mounting Brkt	001-4435E	2	Tip	004-TT11001VP	2
2	Spray Shield	001-4435ES	1	Tip	004-TT110015VP	2
3	Straight Fitting	003-A1414VB	3	Tip	004-TT11003VP	2
4	Nozzle Cap	004-4723	9	Tip	004-800067-PT	2
5	Check Valve	004-1207VB	3	Tip Strainers	004-1203-100	6
6	Straight Fitting	003-A1414	6			
7	Nozzle Body	004-4722	6			
8	Tee	003-TT14SQ	3			
9	Street elbow	003-SE14F	3			
10	Lynch Pin	008-4576	2			
11	Hose	002-9016	4ft			
12	Hose Clamps	003-9002	9			

4498B installation kit



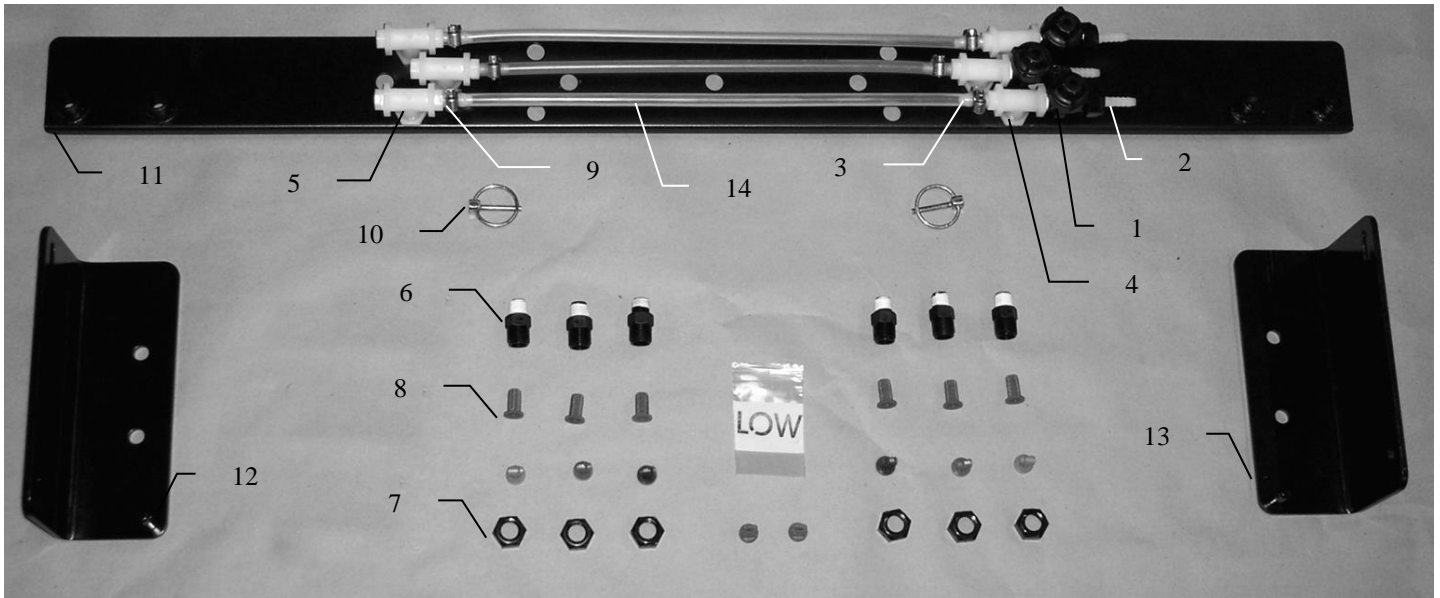
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1	Spray Shield	001-4810	1	NP	Tip	004-TT11001VP	2
2	Shield Holder	001-4810A	2	NP	Tip	004-TT110015VP	2
3	Straight Fitting	003-A1414VB	3	NP	Tip	004-TT11003VP	2
4	Check Valve	004-1207VB	3	NP	Tip	004-800067-PT	2
5	Nozzle Cap	004-4723	9	NP	Tip Strainers	004-1203-100	6
6	Tee	003-TT14	6	NP	Hose Clamps	003-9002	9
7	Straight Fitting	003-A1414	6				
8	Plug	003-F14	3	NP	Not Pictured		
9	Nozzle Body	004-4722	6				
10	Lynch Pin	008-4576	2				
11	Hose	002-9006	4ft				

4499B installation kit



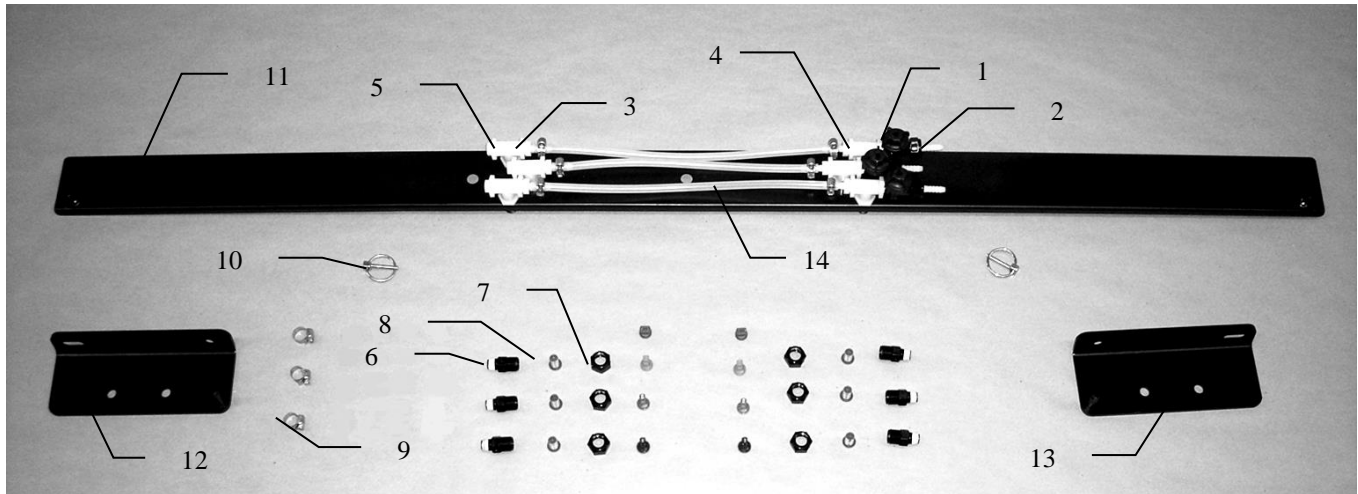
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4439A	1			
12	Shield holder	001-4440	1			
13	Hose – 1/4"	002-9016	3ft			

4500B installation kit



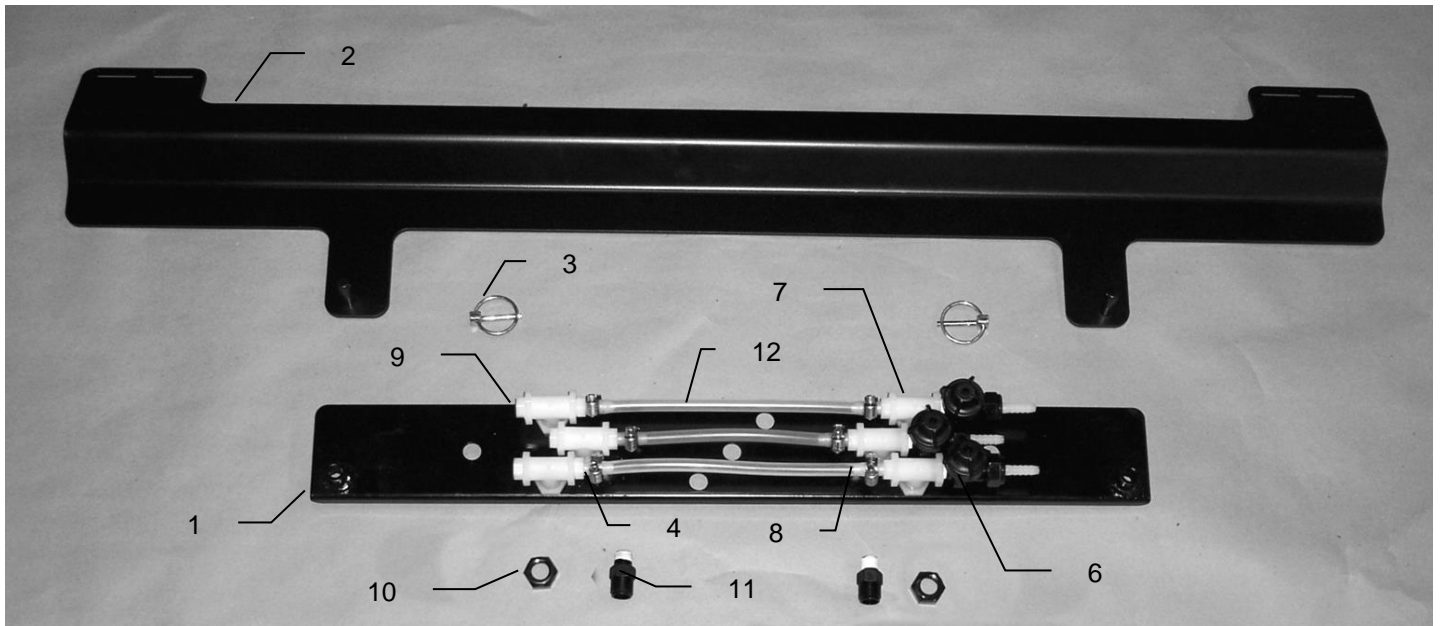
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4811A	1			
12	Left shield holder	001-4436CL	1			
13	Right shield holder	001-4436CR	1			
14	Hose	002-9016	3ft			

4501B installation kit



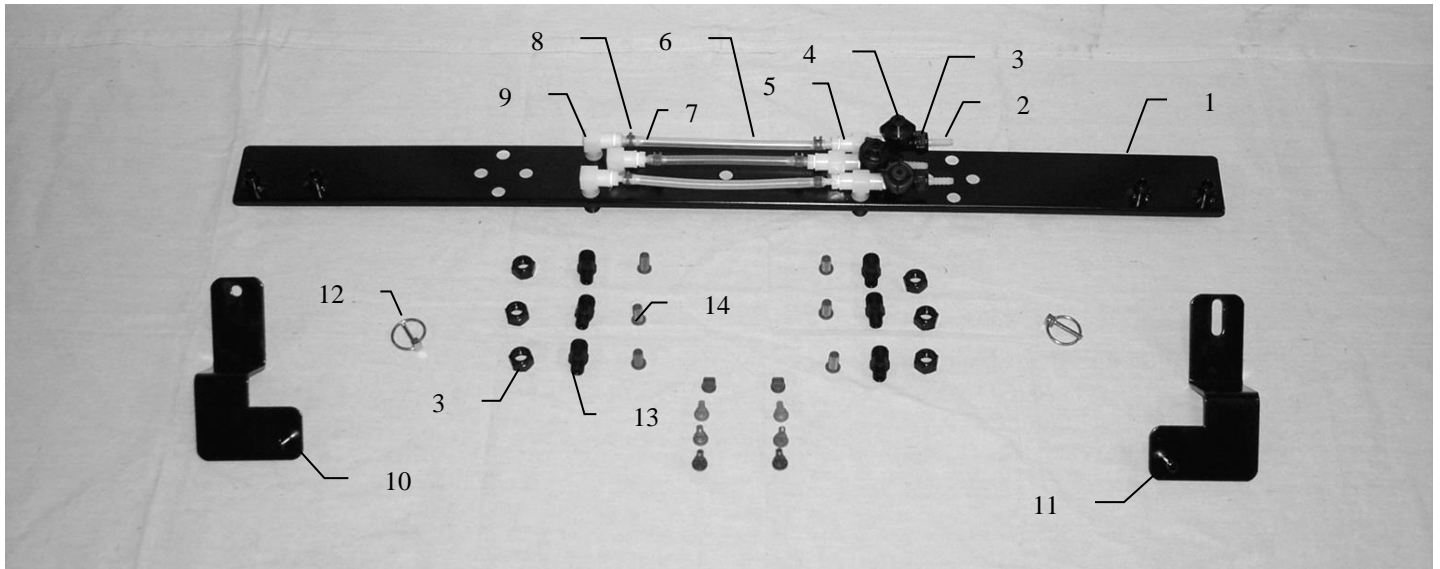
<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Check valve	004-1207VB	3	Tip	004-800067-PT	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT11001VP	2
3	Straight fitting	003-A1414	6	Tip	004-TT110015VP	2
4	Tee	003-TT14SQ	3	Tip	004-TT11003VP	2
5	Street elbow	003-SE14F	3			
6	Nozzle body	004-4722	6			
7	Nozzle cap	004-4723	9			
8	Tip strainer	004-1203-100	6			
9	Hose clamp	003-9002	9			
10	Lynch pin	008-4576	2			
11	Spray shield	001-4436CS	1			
12	Left shield holder	001-4436CL	1			
13	Right shield holder	001-4436CR	1			
14	Hose – 1/4"	002-9016	3ft			

4509B installation kit



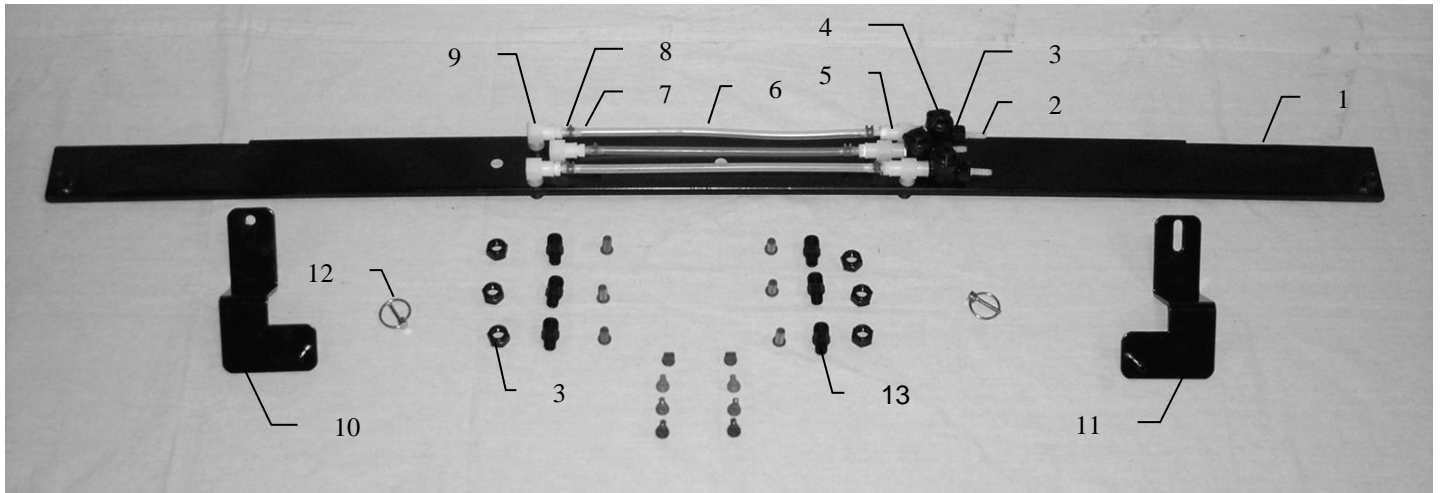
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray Shield	001-4810	1	Tip	004-TT11001VP	2
2	Shield holder	001-4440A	1	Tip	004-TT110015VP	2
3	Lynch Pins	008-4576	2	Tip	004-TT11003VP	2
4	Hose Clamps	003-9002	9	Tip	004-800067-PT	2
5	Straight Fitting	003-A1414VB	3	Tip Strainers	004-1203-100	6
6	Check Valve	004-1207VB	3			
7	Tee	003-TT14SQ	3			
8	Straight Fitting	003-A1414	6			
9	90 degree elbow	003-SE14F	3			
10	Nozzle Cap	004-4723	9			
11	Nozzle Body	004-4722	6			
12	Hose	002-9016	3ft			

4510B installation kit



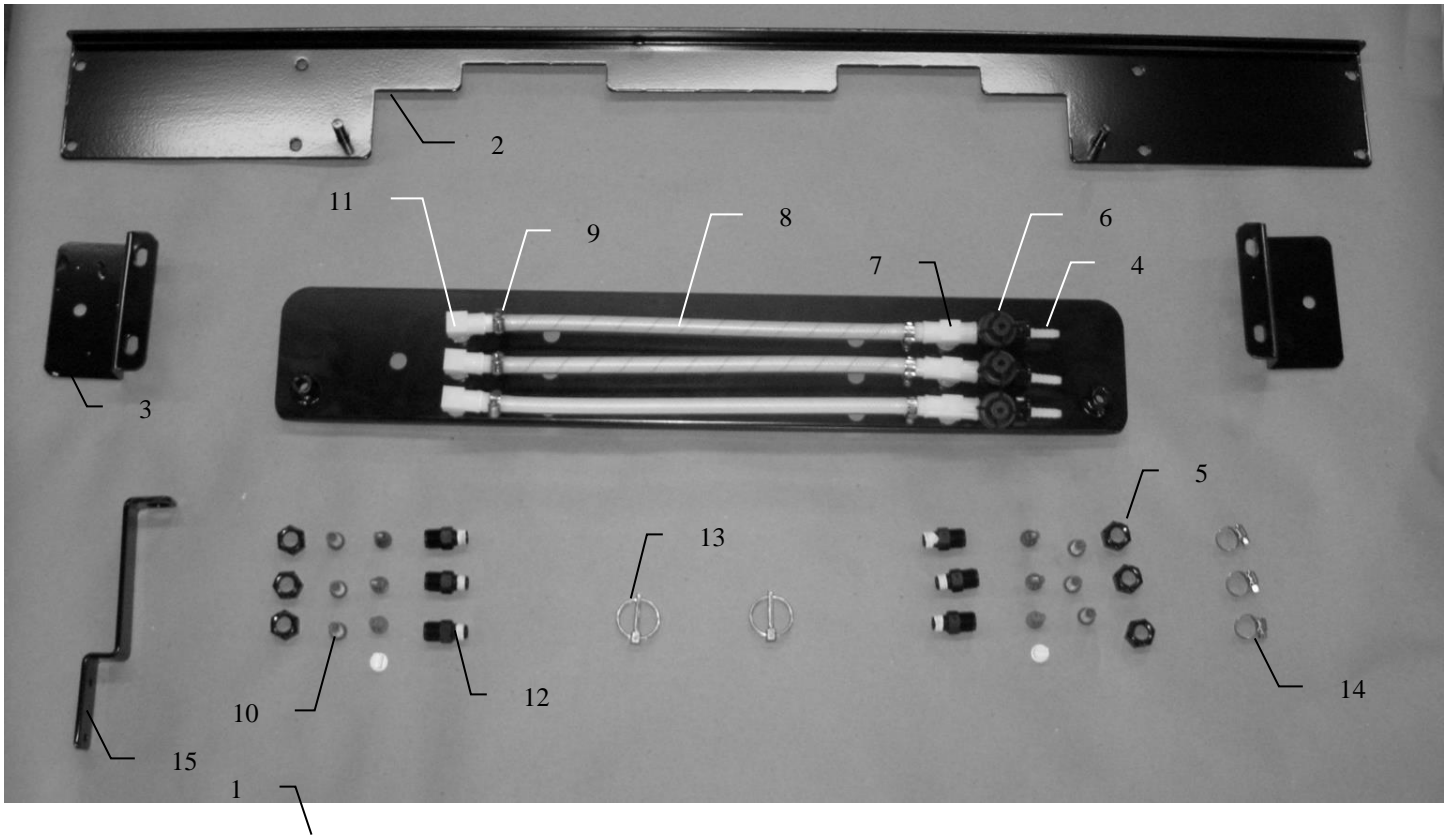
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4811A	1	Tip	004-TT11001VP	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT110015VP	2
3	Nozzle cap	004-4723	9	Tip	004-TT11003VP	2
4	Check valve	003-1207VB	3	Tip	004-800067-PT	2
5	Tee	003-TT14SQ	3			
6	Hose	002-9016	3			
7	Straight fitting	003-A1414	6			
8	Hose clamp	003-9002	9			
9	Elbow	003-SE14F	3			
10	Shield hanger	001-4704A	1			
11	Shield hanger	001-4704B	1			
12	Lynch pin	008-4576	2			
13	Nozzle body	004-4722	6			
14	Tip Strainers	004-1203-100	6			

4511B installation kit



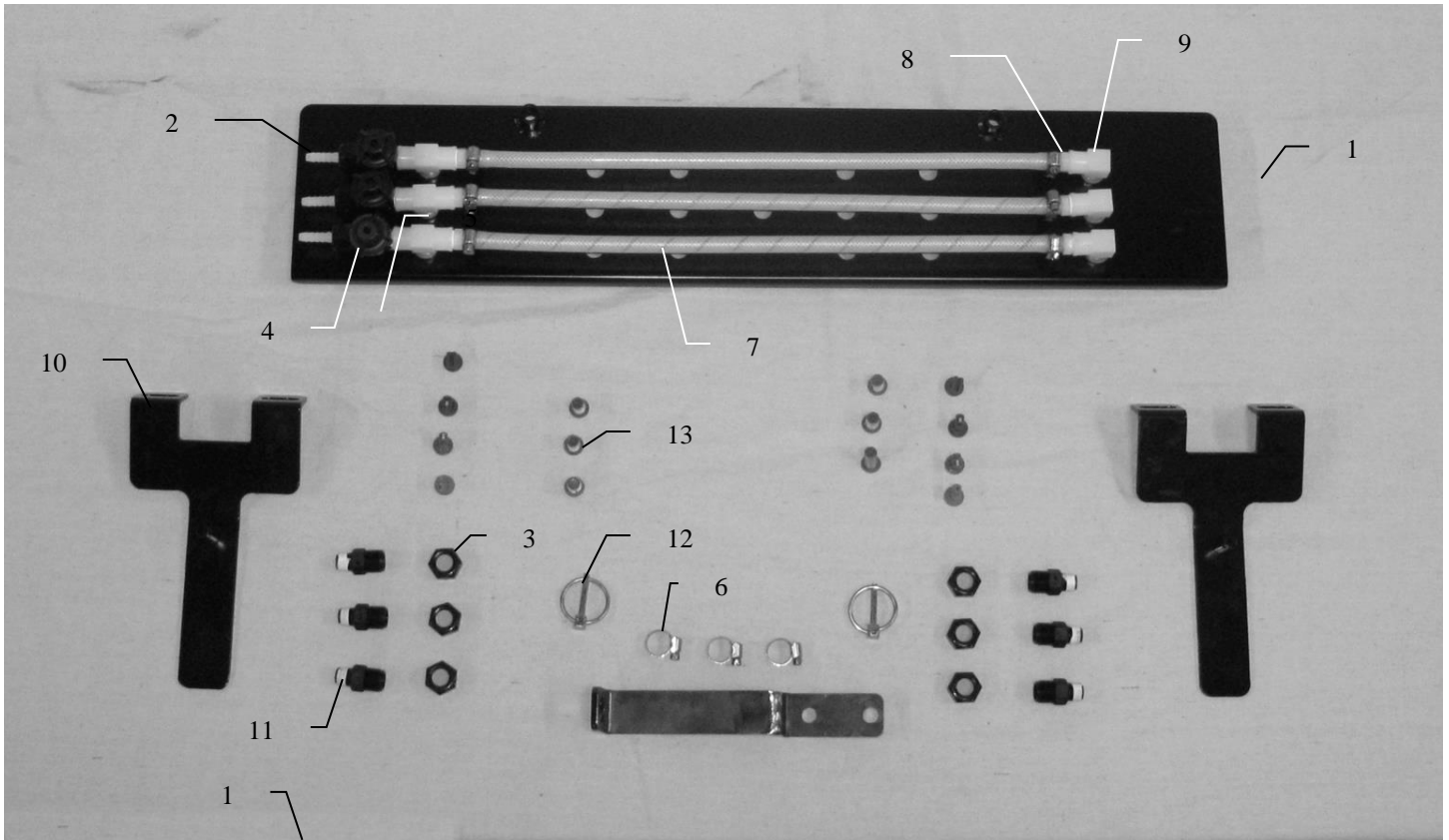
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4704C	1	Tip	004-TT11001VP	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT110015VP	2
3	Nozzle cap	004-4723	9	Tip	004-TT11003VP	2
4	Check valve	003-1207VB	3	Tip	004-800067-PT	2
5	Tee	003-TT14SQ	3	Tip Strainers	004-1203-100	6
6	Hose	002-9016	3			
7	Straight fitting	003-A1414	6			
8	Hose clamp	003-9002	9			
9	Elbow	003-SE14F	3			
10	Shield hanger	001-4704A	1			
11	Shield hanger	001-4704B	1			
12	Lynch pin	008-4576	2			
13	Nozzle body	004-4722	6			

4514B installation kit



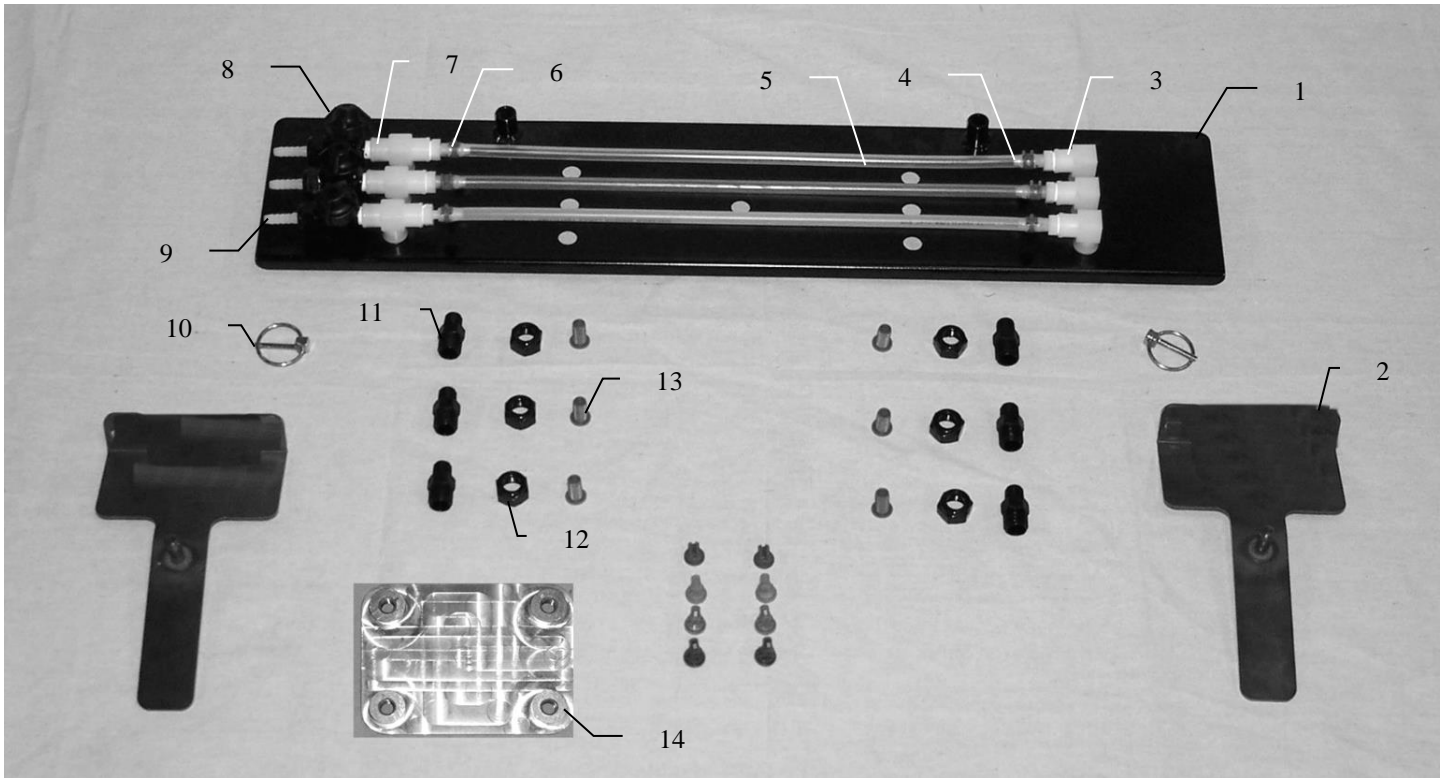
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4431B	1	Tip	004-TT11001VP	2
2	Shield holder	001-4431KA	1	Tip	004-TT110015VP	2
3	Mounting brackets	001-4431KB	2	Tip	003-TT11003VP	2
4	Straight fitting	003-A1414VB	3	Tip	004-800067-PT	2
5	Nozzle cap	003-4723	9			
6	Check valve	004-1207VB	3			
7	Tee	003-TT14SQ	3			
8	Hose	002-9016	6			
9	Straight fitting	003-A1414	6			
10	Tip Strainers	004-1203-100	6			
11	Elbow	003-SE14F	3			
12	Nozzle body	004-4722	6			
13	Lynch pin	008-4576	2			
14	Hose clamp	002-9002	9			
15	End of bale sensor mount	001-4648K	1			
NP	End of bale sensor mount (Krone 12130 only)	001-4648K2	1			
NP	Not pictured					

4515B installation kit



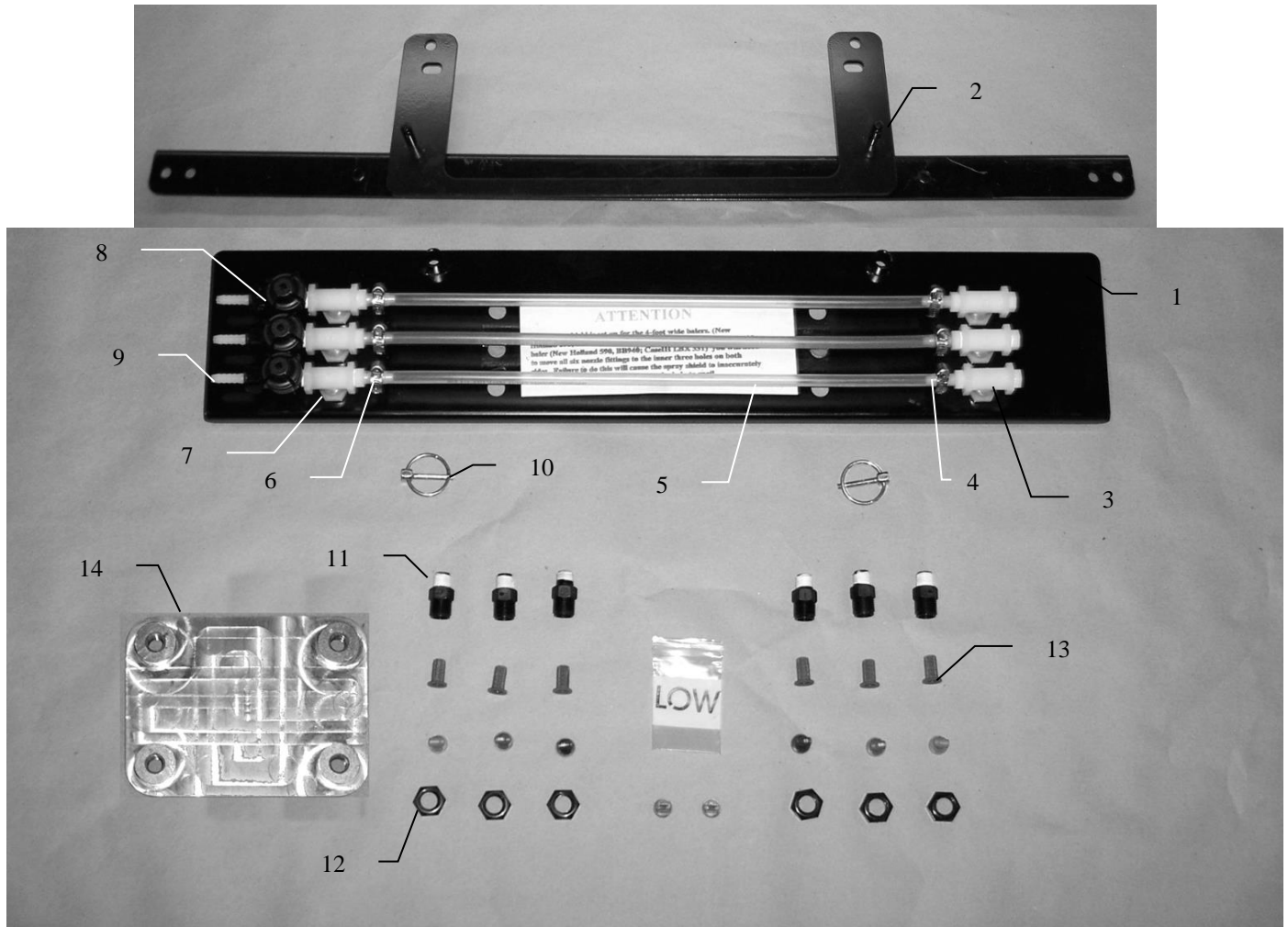
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4435ES	1	Tip	004-TT11001VP	2
2	Straight fitting	003-A1414VB	3	Tip	004-TT110015VP	2
3	Nozzle cap	004-4723	9	Tip	004-TT11003VP	2
4	Check valve	004-1207VB	3	Tip	004-800067-PT	2
5	Tee	003-TT14SQ	3			
6	Hose clamp	003-9002	9			
7	Hose	002-9016	4			
8	Straight fitting	003-A1414	6			
9	Elbow	003-SE14F	3			
10	Shield holder	001-4435K	2			
11	Nozzle body	004-4722	6			
12	Lynch pin	008-4576	2			
13	Tip strainers	004-1203-100	6			
14	End of bale sensor mount	001-4648K	1			
NP	End of bale sensor mount (Krone 12130 only)	001-4648K2	1			
NP	Not pictured					

4518B installation kit



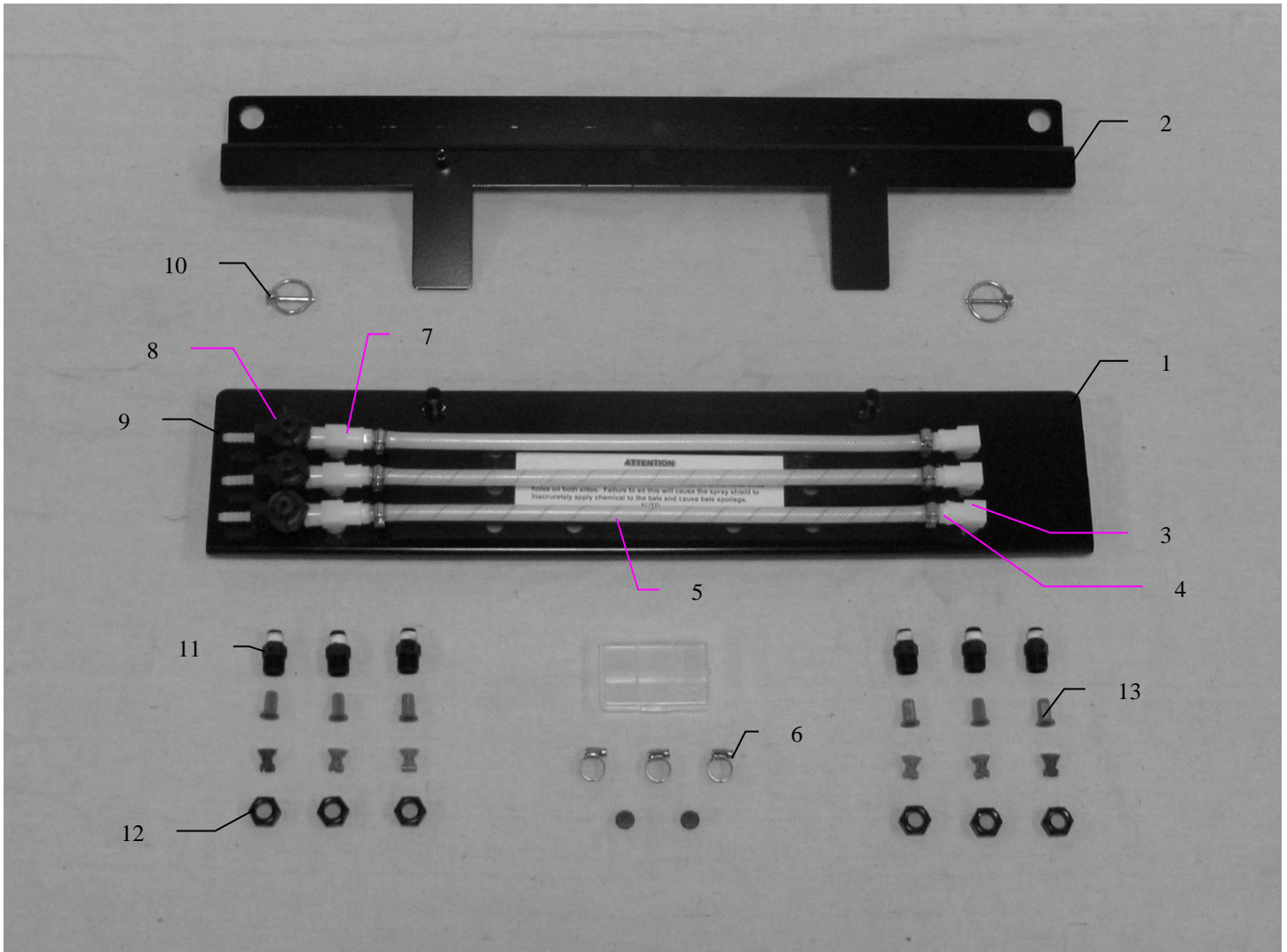
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4435ES	1	Tip	004-800067-PT	2
2	Shield holder	001-4435H	2	Tip	004-TT11001VP	2
3	Elbow	003-SE14F	3	Tip	004-TT110015VP	2
4	Straight fitting	003-A1414	6	Tip	004-TT11003VP	2
5	Hose	002-9016	6			
6	Hose clamp	003-9002	9			
7	Tee	003-TT14SQ	3			
8	Check valve	004-1207VB	3			
9	Straight fitting	003-A1414VB	3			
10	Lynch pin	008-4576	2			
11	Nozzle body	004-4722	6			
12	Nozzle cap	004-4723	9			
13	Tip strainer	004-1203-100	6			
14	Star wheel spacer	001-6707E	2			

4519B installation kit



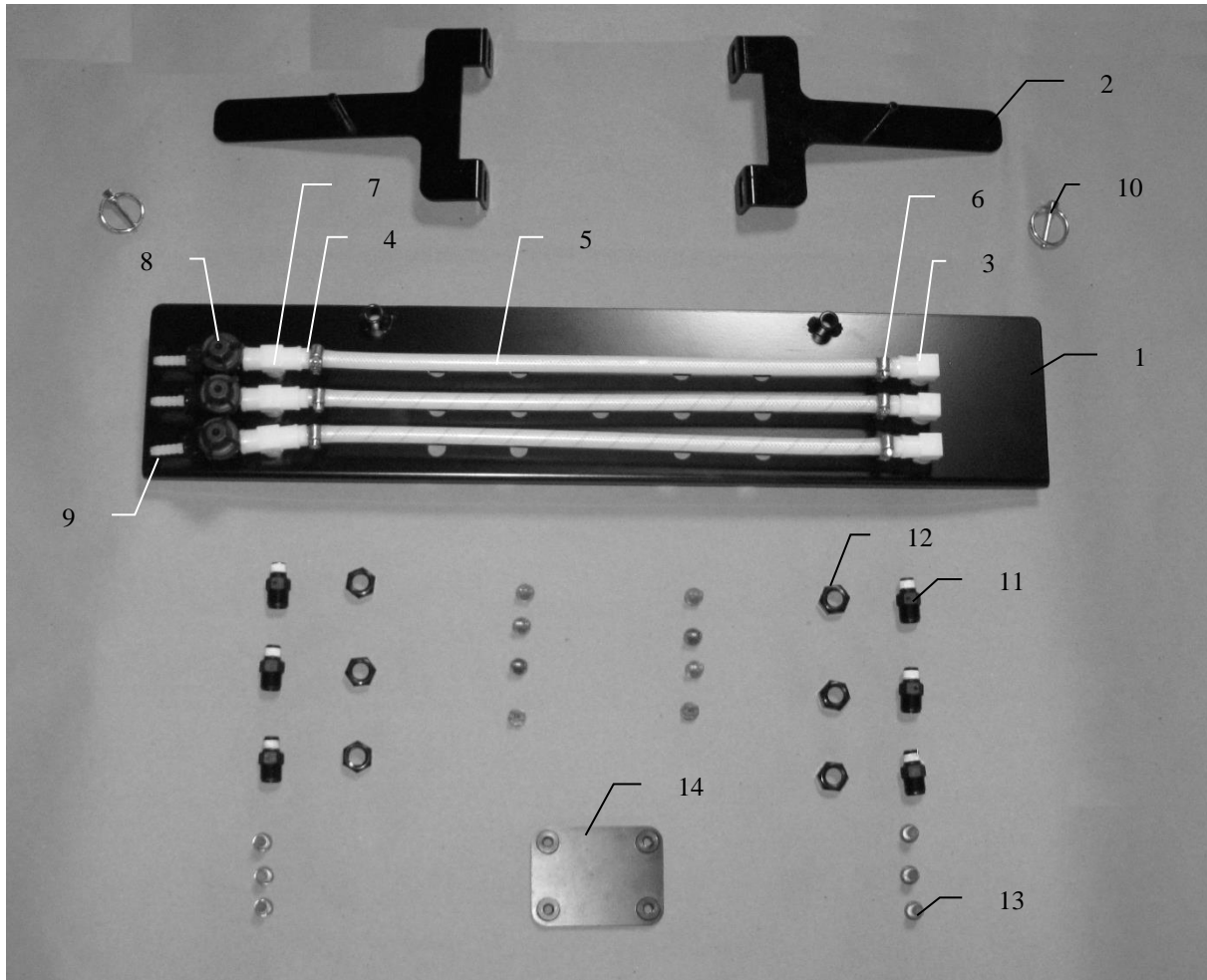
<u>Ref</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>	<u>Description</u>	<u>Part #</u>	<u>Qty</u>
1	Spray shield	001-4435AS	1	Tip	004-800067-PT	2
2	Shield holder	001-4435J	1	Tip	004-TT11001VP	2
3	Elbow	003-SE14F	3	Tip	004-TT110015VP	2
4	Straight fitting	003-A1414	6	Tip	004-TT11003VP	2
5	Hose	002-9016	6			
6	Hose clamp	003-9002	9			
7	Tee	003-TT14SQ	3			
8	Check valve	004-1207VB	3			
9	Straight fitting	003-A1414VB	3			
10	Lynch pin	008-4576	2			
11	Nozzle body	004-4722	6			
12	Nozzle cap	004-4723	9			
13	Tip strainer	004-1203-100	6			
14	Star wheel spacer	001-6707E	2			

4525B 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	001-4435ES	1	Tip	004-800067-PT	2
2	Shield holder	001-4435EK	1	Tip	004-TT11001VP	2
3	Elbow	003-SE14SQ	3	Tip	004-TT110015VP	2
4	Straight fitting	003-A1414	6	Tip	004-TT11003VP	2
5	Hose	002-9016	6			
6	Hose clamp	003-9002	9			
7	Tee	003-TT14SQ	3			
8	Check valve	004-1207VB	3			
9	Straight fitting	003-A1414VB	3			
10	Lynch pin	008-4576	2			
11	Nozzle body	004-4722	6			
12	Nozzle cap	004-4723	9			
13	Tip strainer	004-1203-100	6			

4527B 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	001-4435ES	1	Tip	004-800067-PT	2
2	Shield holder	001-4435HPC	2	Tip	004-TT11001VP	2
3	Elbow	003-SE14SQ	3	Tip	004-TT110015VP	2
4	Straight fitting	003-A1414	6	Tip	004-TT11003VP	2
5	Hose	002-9016	6			
6	Hose clamp	003-9002	9			
7	Tee	003-TT14SQ	3			
8	Check valve	004-1207VB	3			
9	Straight fitting	003-A1414VB	3			
10	Lynch pin	008-4576	2			
11	Nozzle body	004-4722	6			
12	Nozzle cap	004-4723	9			
13	Tip strainer	004-1203-100	6			
14	Star wheel spacer	001-6707E	2			

4530B installation kit

**Vicon large square
Template**

**Drill 5/16" Diameter
holes (x2)**

2.00"

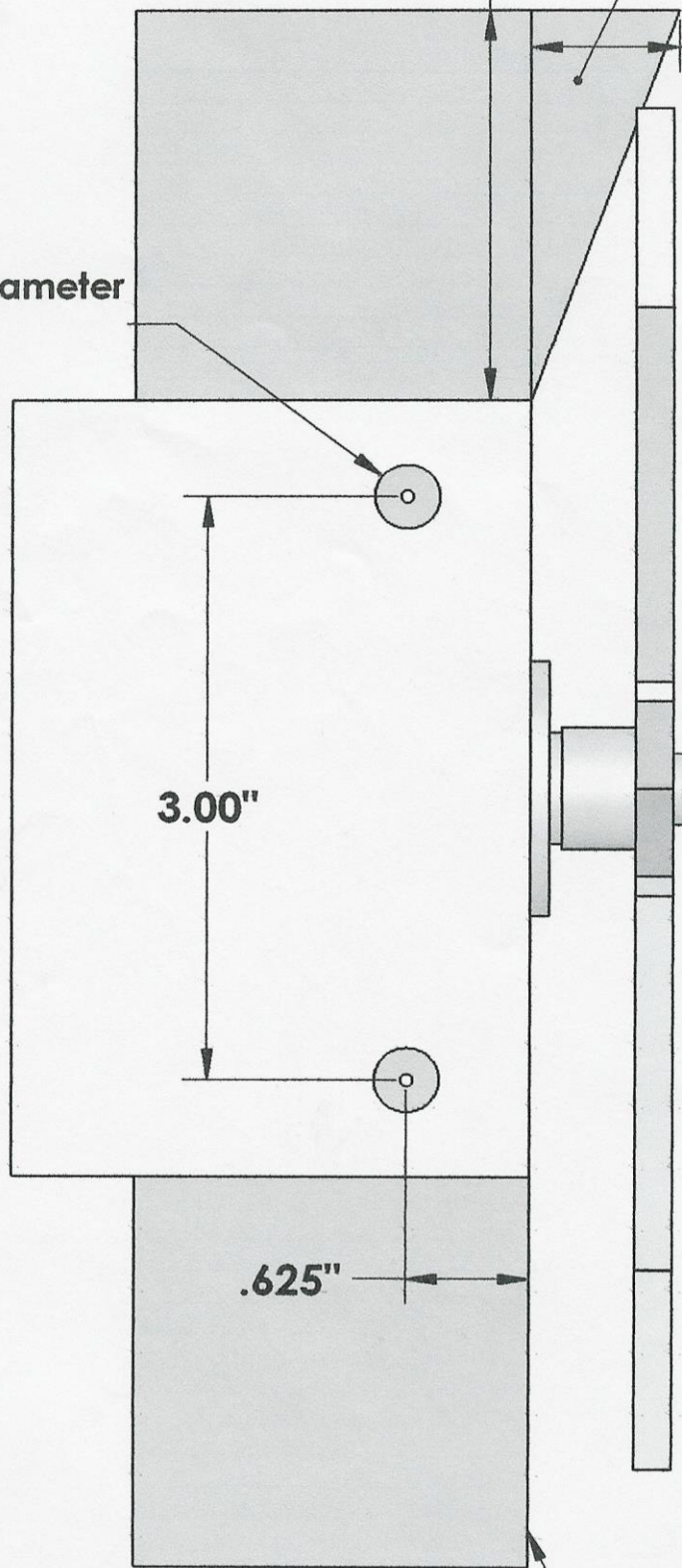
**It may be necessary to
make a notch for the
Star Wheel on inline small
square balers**

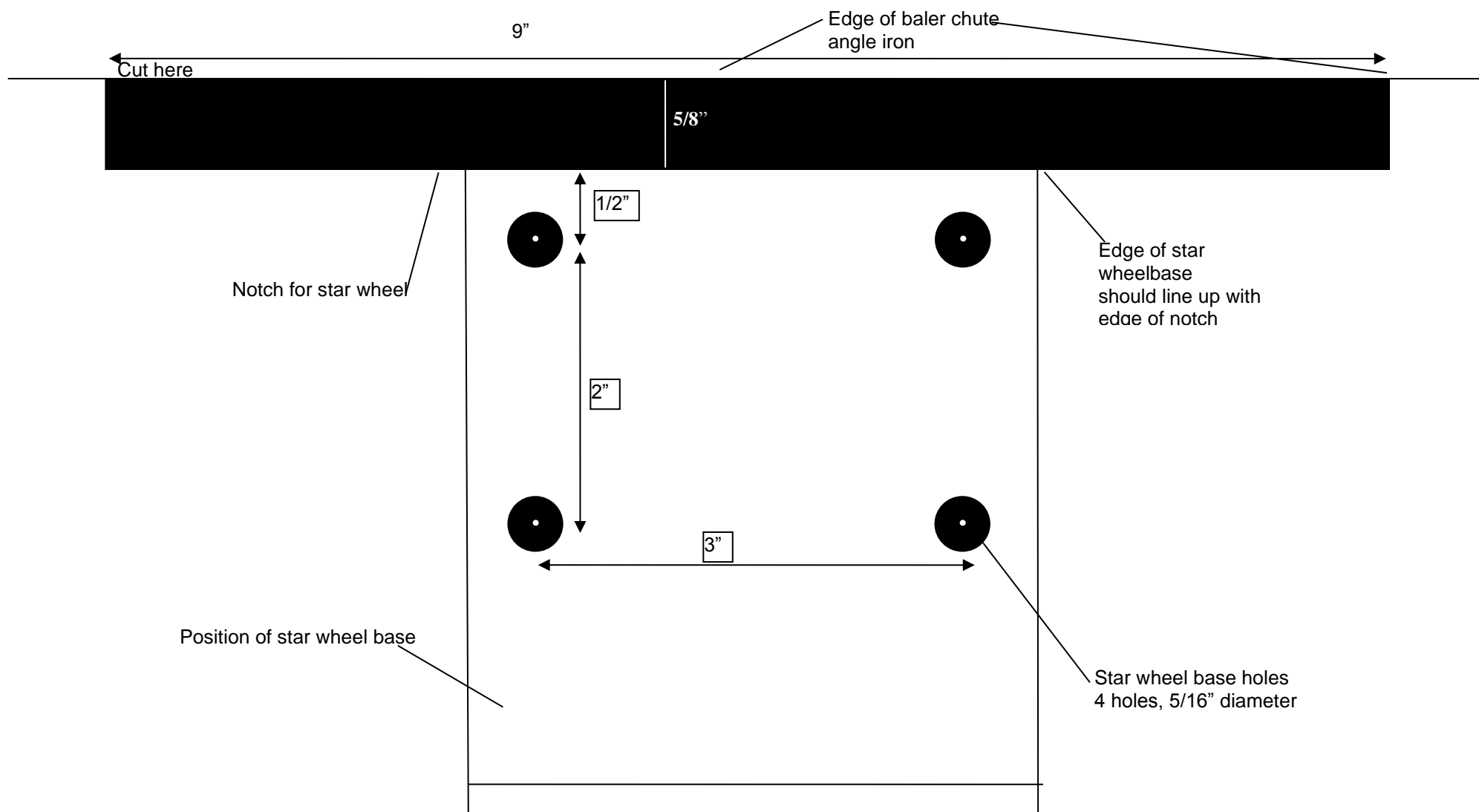
.75"

3.00"

.625"

**Edge of Star Wheel
base should line up
with the inside edge of
the baler chute angle iron**





NOTES:

Harvest Tec, LLC. Warranty and Liability Agreement

Harvest Tec, LLC. will repair or replace components that are found to be defective within 12 months from the date of manufacture. Under no circumstances does this warranty cover any components which in the opinion of Harvest Tec, LLC. have been subjected to negligent use, misuse, alteration, accident, or if repairs have been made with parts other than those manufactured and obtainable from Harvest Tec, LLC.

Our obligation under this warranty is limited to repairing or replacing free of charge to the original purchaser any part that in our judgment shows evidence of defective or improper workmanship, provided the part is returned to Harvest Tec, LLC. within 30 days of the failure. Parts must be returned through the selling dealer and distributor, transportation charges prepaid.

This warranty shall not be interpreted to render Harvest Tec, LLC. liable for injury or damages of any kind, direct, consequential, or contingent, to persons or property. Furthermore, this warranty does not extend to loss of crop, losses caused by delays or any expense prospective profits or for any other reason. Harvest Tec, LLC. shall not be liable for any recovery greater in amount than the cost or repair of defects in workmanship.

There are no warranties, either expressed or implied, of merchantability or fitness for particular purpose intended or fitness for any other reason.

This warranty cannot guarantee that existing conditions beyond the control of Harvest Tec, LLC. will not affect our ability to obtain materials or manufacture necessary replacement parts.

Harvest Tec, LLC. reserves the right to make design changes, improve design, or change specifications, at any time without any contingent obligation to purchasers of machines and parts previously sold.

Revised 5/22

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