

OWNER'S MANUAL

Model 440 55 Gallon Preservative Applicator



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INTRODUCTION

Congratulations on purchasing a Harvest Tec Model 440 applicator. This applicator is designed to apply Harvest Tec buffered acid. The model 440 base kit includes the following parts: tank, frame, pump, gauge, hose, electronic control box, and miscellaneous hardware. The applicator can be installed on most balers with the proper installation kit (not included.) 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 dealer for specifications. For your convenience we have included a parts break down for the model 440 applicator. If something goes wrong bring this manual into the dealer so they can order the correct parts for you. Ordering the correct part number is very important. It will save you time, money, and your crop.

INSTALLATION KIT REFERENCE CHART

BALER MAKE	BALER MODEL	INSTALLATION KIT
CASE IH	SBX530 - SBX550 & SB531 – SB551 SQUARE BALERS	4415-SO
NEW HOLLAND	570 - 580 & BC5060-BC5080 SQUARE BALERS	4415-SO

TOOLS NEEDED

- Standard wrench set
- Standard socket set
- Standard screw driver or 5/16" nut driver
- Side cutter
- Hose cutter
- Crescent wrench
- Hammer
- 1 1/2" hole saw
- Standard drill bits

INSTALLATION OF APPLICATOR

1. INSTALLATION OF MOUNTING BRACKETS, FILTER BOWL, GAUGE AND TANK

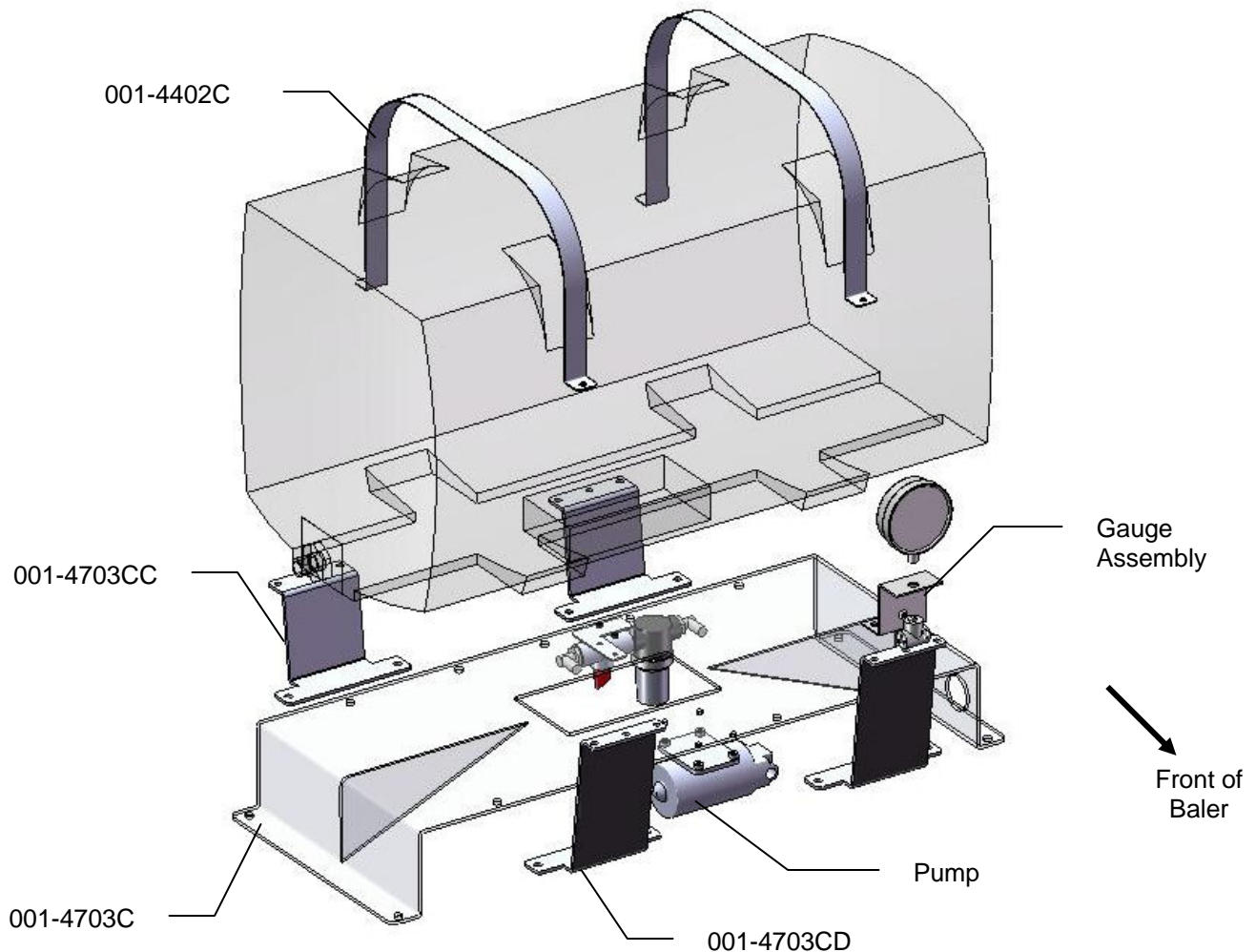
Locate the saddle (001-4703C) and the four strap bases. Mount the two long strap bases (001-4703CD) to the front of the saddle and the two short (001-4703CC) to the back using 3/8 x 1 1/4" bolts, locks, and nuts. NOTE: The front side will have four pre-drilled holes to attach the pump. Make sure the bolts point down to prevent damage to the tank.

Locate the filter holder (001-4703CH) and mount to the tank using 1/4 x 1" bolts, locks, and nuts.

Mount the gauge on the front right strap. The bracket will be held with one 1 x 3/8" bolt, lock and nut on the right side. The bolt going through the strap will hold the left side of the bracket.

Install the tank fitting into the bottom of the tank (003-EL3412) and mount the tank on top of the saddle and between the strap bases. When facing the front of the tank, make sure the side tank fitting is on the left.

Locate the two straps (001-4402C). Position the straps over the top of the tank and secure with four 5/16 x 2 1/2" bolts and eight nuts. All of the strap bolts need to have double nuts. Mount the door strap on a back strap base using the 1/4 x 1" bolt and lock nut.



2. INSTALLATION OF SPRAY SHIELD ASSEMBLY

Install kit 4415

Locate the hay guard directly above the bale chamber. This install can be done with the hay guard in the baler, but it is recommended to remove. Consult your dealer for procedure.

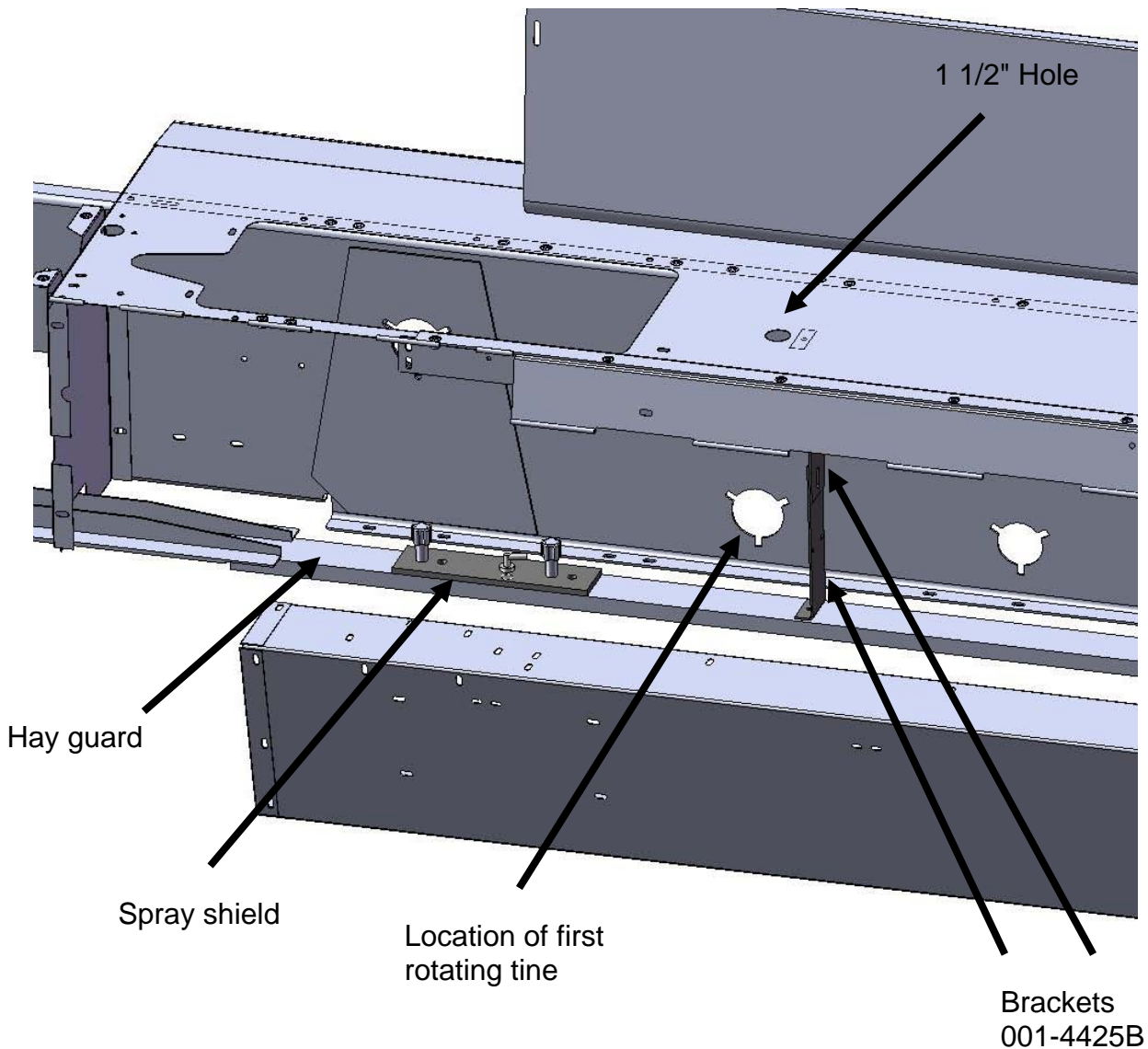
Installation of spray shield

1. Mark a point 10" from the knife and centered on the hay guard. Next, mark a point 20" from the knife and centered on the hay guard. Using a straight edge draw a line between these two points.
2. Locate the template in the back on the manual. Align the template accordingly with the centerline and the correct side pointing towards the knife. The first point will align on the 10" mark from the knife. Tape the template to the hay guard following the centerline.
3. Center punch all three of the points on the hay guard. Verify measurements on template.
4. Remove the template and mark the center-punched points 1 through 3 starting at the point closest to the knife.
5. Drill all three holes with an 1/8" drill bit **ONLY THROUGH THE TOP PIECE OF STEEL.**
6. At point 2 drill only through the top of the hay guard with a 1 1/2" hole saw.
7. Drill points 1 and 3 through both the top and bottom steel using a 1/4" drill bit.
8. Insert two 1/4" x 2" button head cap screws through holes 1 and 3. The head of the screw will need to be down (in the chamber). Secure with nylon lock nut.
9. Place spray shield with plastic fitting down onto the hay guard. Secure with 1/4" flat washers and nut. Turn the white nylon fitting down until it touches the bottom of the hay guard. This fitting will be used as a drill guide.
10. Drill through the bottom steel on hole 2, with a 1/4" bit. Remove the shield and drill the hole with a 9/16" bit. Be careful to not oblong the holes. De-bur any metal filings left around the hole on both sides of the hay guard.
11. Remove the plastic drill guide from the shield and replace with the elbow fitting. Place the check valve, tip and cap onto the end of the elbow. Reference the owner's manual for the proper tip selection.
12. Thread the elbow into the center threaded hole. Do not thread all the way down, only start the elbow.
13. Place the shield on the hay guard and secure by pressing down. Thread the elbow with tip down until it touches the bottom metal.
14. Secure the spray shield with the knobs.

Installation of hose and support bracket

1. If the hay guard was removed for shield installation reinstall at this time.
2. Mark a point 6" from the first rotating tine on the center of the hay guard. Center punch this mark and drill a 1/4" hole through both top and bottom of the hay guard.
3. Bolt the bottom bracket (001-4425B) using 1/4" x 2" button head cap screw. Secure with a 1/4" flange nut. The head will need to be down (in the chamber).
4. Loosely install the remaining bracket (001-4425B) to the bottom bracket attaching in the middle. Level the two pieces and extend the top bracket until it reaches the top of the baler. Secure with a 1/4" flange bolt and nut.
5. Mark and drill the top hole with a 1/4" bit. Secure with a 1/4" flange bolt and nut.
6. Cut a 1 1/2" hole in the top of the baler for the hose to route through. Install the grommet once the hole is complete.
7. Attach the hose, to the elbow, securing with the hose clamp.

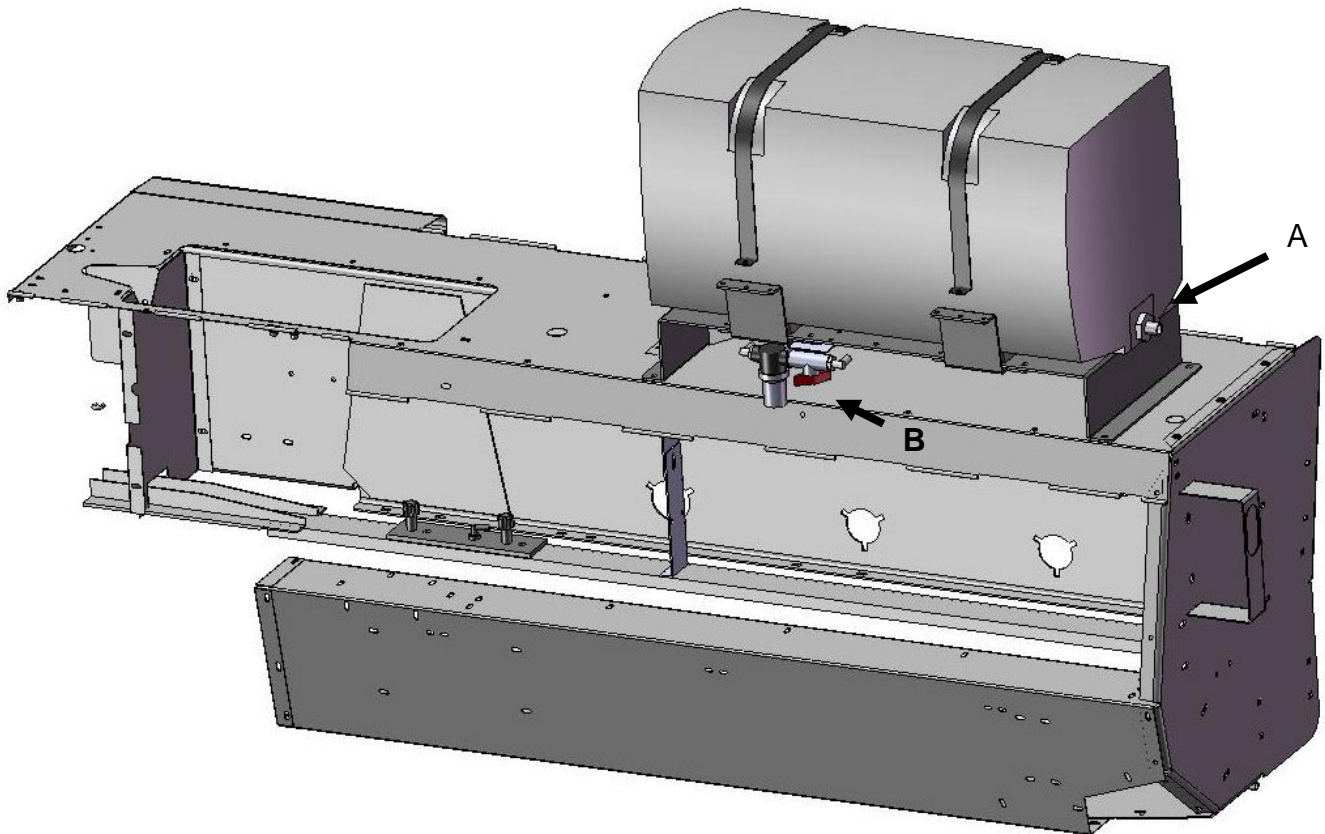
8. Secure the hose on the end of the spray shield with one jiffy clip (008-9010) and a 1/4" x 1/2" round head screw.
9. Install the hose from the shield under the hay tine, to the bracket, and out the top.
10. Secure the hose to the bracket with two jiffy clips (008-9010) and 1/4" flange bolts and nuts.
Keep the hose in the center of the bracket.
11. Run the hose through the top of the baler and down towards the tank. Use the supplied jiffy clips (008-9010) to secure hose in route to the pump.
12. Connect the hose to the pump. See plumbing section.



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

3. INSTALLATION OF TANK

Mount the tank as shown below. The tank will be mounted as far to the right side of the baler as possible. The side tank fitting (Figure A) will be facing the right side of the baler and filter assembly (figure B) will be at the back of the baler. Place the tank on top of the baler and open the front access door. Position the tank so that the front access door can be lifted open and locked in place. The back access door will be held open with the door strap. Mark and drill four 3/8 inch holes on the top of the baler for the saddle to attach, secure with four 8 x 30mm bolts, locks, flats, and nuts. Before drilling verify that the hole placement will not interfere with any baler operation.



View from back of baler

4. INSTALLATION OF DRAIN/FILL LINE

Install the straight fitting (003-A3434) or elbow fitting (003-EL3434) into the side fitting in the tank (Figure B). Drill two 5/16" holes using the valve holder (001-6702H) as a template on the right side of the baler above the tire. Mount the valve holder with two 1/4 x 1" bolts, locks, flats and lock washers. Attach the 3/4" cam coupler to the 3/4" ball valve through the valve holder. Insert the straight fitting (003-A3434) into the ball valve. Cut the 3/4" hose to length secure on both sides using hose clamps.

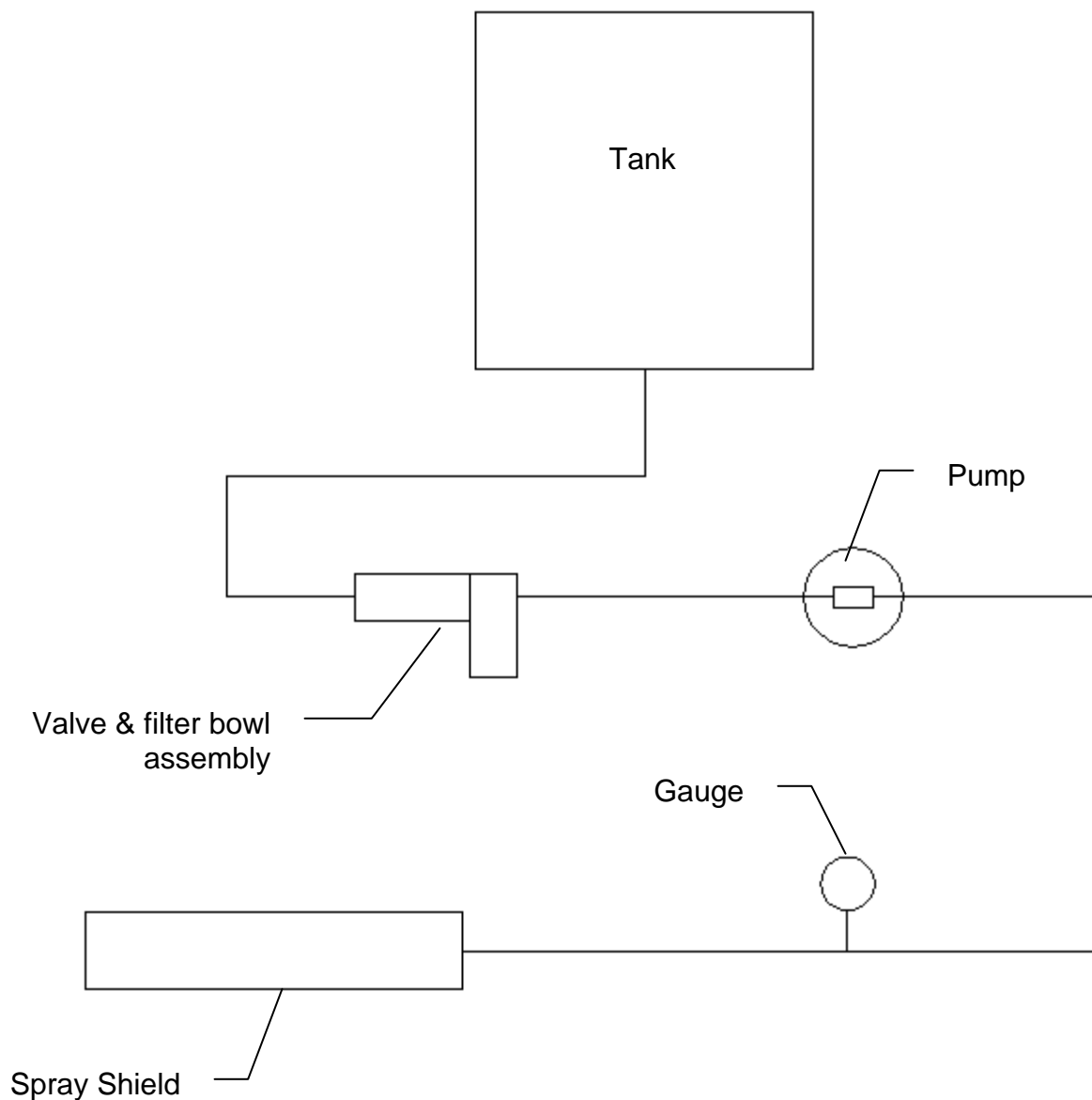
5. INSTALLATION OF PLUMBING

A. INTAKE

Screw the 003-EL3412 (3/4" to 1/2" elbow) into the bottom of the tank. Run the hose to the ball valve elbow and secure with hose clamps on both sides. Run the hose from the elbow on the filter bowl assembly to the straight fitting on intake side of the pump. Secure the hose on both sides with hose clamps.

B. OUTLET

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



6. INSTALLATION OF CONTROLS

APPLY RATE DECAL

Apply the rate decal that came in the bag with this book and place it just to the right of the speed dial.

LOCATION OF CONTROL BOX

Locate the control where it can be easily reached from the tractor's seat. Adjustments for baling speed and windrow conditions can be made as the baler is operated.

WIRING

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

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

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

OPERATION

The 440 applicator is very simple to operate. After installing the applicator, fill the tank with 5 gallons of water. With control box connected to the applicator and the power cord hooked to the 12-volt battery we can start the test. First flip on the toggle switch. You might hear the buzzing of the motor. Turn the dial on the control box until the gauge starts to climb. By turning the dial clockwise the pressure will go up. By turning the dial counter clockwise the pressure will decrease. With the applicator spraying at about 30 PSI, look for leaks at all the hose connections and fittings. Using water in this step instead of chemical will save you from wasting chemical and making a mess if leaks are found. When you are comfortable with the operation of the controls you can set the applicator to the amount of chemical you would like it to put on.

Message Light

The LED under the speed dial will be steady on when the applicator is running under normal situations. If the light blinks on and off use the below information for the message.

Slow steady on and off blink: The system is attached to hay indicators (474A) or a foot switch. This message means that the pump is paused. The light will come on constant once the baler is back in the windrow.

Two quick blinks: The pump motor or pump harness is shorted.

Three quick blinks: Pump motor is over the current limit (10 amps).

Four quick blinks: Power is under current from a bad connection.

The control box must have the on/off switch toggled to clear the message after the fault has been fixed to clear.

CALIBRATION

There are three things that you need to know when calibrating your applicator. First you need know how many tons per hour you bale. Second you need to know the rate, or how many pounds of product to apply for a given ton per hour. Finally you need to know what tips to use and at what pressure to set the gauge.

DETERMINING TONS PER HOUR

Conventional Small Square

1. Bale for three minutes.
2. Count the number of bales made in those three minutes.
3. Weigh several bales to determine the average weight.
4. Use the bale rate chart on the following page to determine the tons you are baling per hour.

Example: You baled 11 bales in three minutes. After weighing some of the bales you found the average bale weight to be 55 lbs. Using the following chart cross reference 11 bales and 55lbs and you will find the rate to be 6.0

CONVENTIONAL BALE RATE CHART (TONS PER HOUR)

BALES MADE IN 3 MINUTES	WEIGHT PER BALE								
	40#	45#	50#	55#	60#	65#	70#	75#	80#
9	3.6	4.0	4.5	5.0	5.4	5.8	6.3	6.7	7.2
10	4.0	4.0	5.0	5.5	6.0	6.5	7.0	7.5	8.0
11	4.4	5.0	5.5	6.0	6.6	7.1	7.7	8.2	8.8
12	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6
13	5.2	5.8	6.5	7.1	7.8	8.4	9.1	9.7	10.4
14	5.6	6.3	7.0	7.7	8.4	9.1	9.8	10.5	11.2
15	6.0	6.7	7.5	8.2	9.0	9.7	10.7	11.2	12.0
16	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8
17	6.8	7.6	8.5	9.3	10.2	11.0	11.9	12.7	13.6
18	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4
19	7.6	8.5	9.5	10.4	11.4	12.3	13.3	14.2	15.2
20	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0

DETERMINING THE RATE OF CHEMICAL

The number of pounds of chemical required to be applied to a given ton of hay, depends on the moisture and the type of chemical used. The moisture of the hay is important in determining how much chemical to use. The wetter the hay the more product is needed, the dryer the hay the less product is needed. By knowing the moisture, you can make sure you are treating the hay correctly. Under applying will save money but spoilage most likely occurs. Over applying will waste money however, the hay will be saved. Some chemicals require more or less to treat the same amount of hay. To find the exact number of pounds required, for a given hay moisture, refer to the label on the drum or contact the manufacture. Harvest Tec applicators come with three sets of tips. If your chemical requires rates other than what these tips deliver you will need to purchase them through your dealer.

SELECTING TIPS AND SETTING PRESSURE FOR CONVENTIONAL SQUARE

Once you have determined your tons per hour and the amount of chemical needed for the moisture you are applying at, you can select nozzles and determine your gauge settings.

1. Multiply the tons per hour by the amount of chemical required for the moisture you are applying at. This sum will give you the application rate.
2. Select the proper set of tips from the application rate chart. (Pg.12)
3. For the tips you have selected, you will need to keep the gauge at the recommended PSI to achieve the proper application rate.
4. Set the pressure by adjusting the dial on the control box and by reading the pressure of the gauge to match the desired rates. The numbers on the dial are for reference only. Rate is determined by watching the pressure gauge.

Example: You are baling at 12.5 tons per hour with your conventional square baler. The moisture that you are baling at requires you to apply 8 pounds per ton. Multiply the 12.5 tons x 8lbs. = 100lbs. per hour. Using the chart, lbs/hr with two nozzles, on page 12, you will notice the medium or blue set of tips at 35 PSI will give you that output.

CALIBRATION REMINDERS

*Watch the pressure gauge, as the setting will vary with tractor's electrical output, temperature and other factors.

*Check your application rate by measuring product used against actual tons baled.

REMEMBER, ONLY YOU CAN CONTROL HOW MUCH PRODUCT IS APPLIED AND THAT WILL DETERMINE IF YOUR HAY WILL KEEP!!!

GENERAL CALIBRATION CHART FOR ONE NOZZLE

Use the following chart for install kit 4415

POUNDS PER HOUR WITH ONE NOZZLE

PSI	DARK BLUE TX-SS-4	LOW ORANGE TX-SS-6	INCLUDED IN KIT MEDIUM LIGHT BLUE TX-SS-12	HIGH YELLOW TX-SS-26
	15	21	32	64
20	25	38	76	120
25	28	42	84	135
30	30	46	92	145
35	33	50	100	165
40	35	53	106	174
45	37	56	112	185
50	38	58	116	195
55	40	61	122	200
60	42	64	128	210

GALLONS PER HOUR WITH ONE NOZZLE

PSI	BLUE TX-SS-4	LOW ORANGE TX-SS-6	INCLUDED IN KIT MEDIUM BLUE TX-SS-12	HIGH YELLOW TX-SS-26
	15	2.4	3.6	7.2
20	2.6	4.2	8.6	13.6
25	3.2	4.6	9.4	15.3
30	3.4	5.2	10.4	16.4
35	3.8	5.6	11.2	18.7
40	4.0	6.0	12.0	19.7
45	4.2	6.2	12.8	21.0
50	4.4	6.6	13.4	22.1
55	4.6	7.0	14.0	22.7
60	4.8	7.2	14.8	23.8

ROUTINE MAINTENANCE

1. **Clean the tip strainers and main strainer** every 10 hours of operation or more frequently if required.
2. Depending on the product being used, the system may need to be flushed with water at a regular interval (consult with manufacturer of the chemical.) If Harvest Tec product is being used, flushing is not necessary.
3. Although the pump can run dry, extended operation of a dry pump will increase wear. Watch the preservative level in the tank.
4. Cover the electronic cab control box on open station tractors if left outside.
5. Pump performance may start to decline after 400 hours of use. Rebuilding the pump is a simple procedure if the motor is not damaged. Order pump rebuilding kit #007-4581.
6. If you are using bacterial inoculants, flush out system daily after each use.
7. Clean tank cap breather every 20 hrs or more frequently if required.

WINTER STORAGE

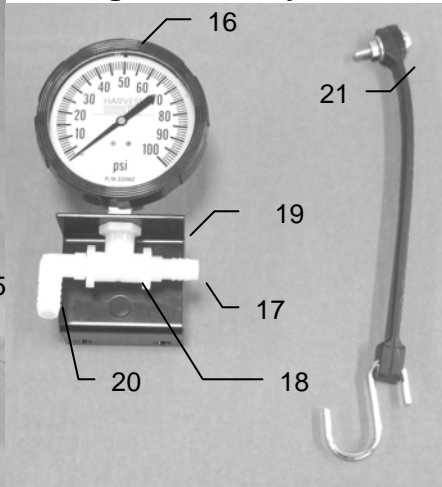
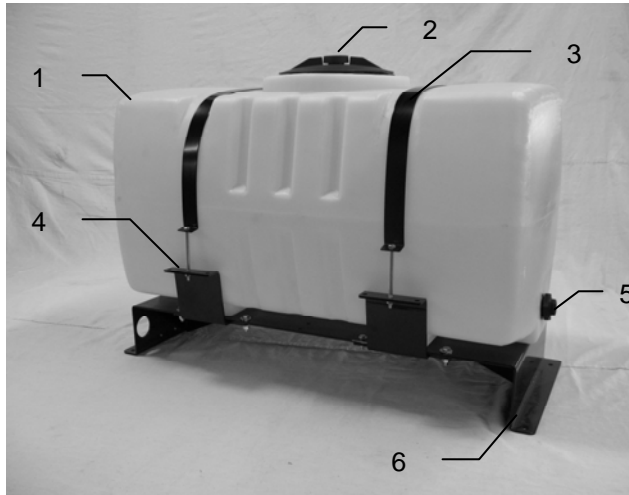
1. Thoroughly flush the system with water.
2. Remove the filter bowl and run dry until the water has cleared out of the intake side.
3. Remove the red plug from the bottom of the pump, drain, and run the pump for 30 seconds or until it is dry.
4. Drain all lines on the outlet side.
5. Never use oils or alcohol based anti-freeze in the system.
6. For spring start-up, or anytime the pump is frozen, turn off the power immediately to avoid burning the motor out. The pump head can be disassembled and freed or rebuilt in most cases.

TROUBLE SHOOTING CHECKS

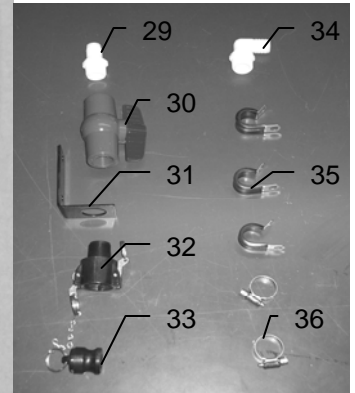
PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump will not run.	1. Circuit breaker tripped on electronic unit.	1. Check for short, low voltage, and reset breaker.
	2. Pump locked up.	2. Clean or rebuild pump if motor is OK.
	3. Damaged wire.	3. Repair damaged wire.
	4. Vapor locked.	4. Loosen hose by check valve by nozzles or manifold and bleed air.
Pump runs but will not prime.	1. Air leak in intake.	1. Tighten fittings on intake side.
	2. Clogged intake.	2. Clean.
	3. Restricted outlet.	3. Check and clean tips.
	4. Dirt inside pump.	4. Replace pump check valve.
Pump does not develop enough output.	1. Air leaks or clogs on inlet side.	1. Tighten or clean filter bowl assembly.
	2. Electronic box out of adjustment.	2. Refer to box adjustment page.
	3. Pump worn or dirty.	3. Rebuild pump.
	4. Low supply voltage. (Pump requires 12v minimum)	4. Check voltage at connection with voltmeter.
	5. Bad gauge.	5. Gauge should read less than 10 PSI when not in use. Also tips should lose spray pattern below 10 PSI. Check accuracy.
Pump output varies.	1. Clogged or restricted inlet.	1. Clean
	2. Worn pump parts.	2. Rebuild pump.
Message light blinks two times	1. Pump or wire harness shorted.	1. Check harness running to pump and verify no shorts or problems. 2. Check to see if pump motor is locked up. Repair or replace.
Message light blinks three times	1. Pump is drawing greater than 10 amps.	1. Check to see if motor is running correctly. Repair or replace.
Message light blinks four times	1. Undercurrent coming to control box.	1. Check all battery connections and connections running up to control box.

HARVEST TEC 55 GALLON APPLICATORS MODEL 440 BASE KIT PARTS LIST

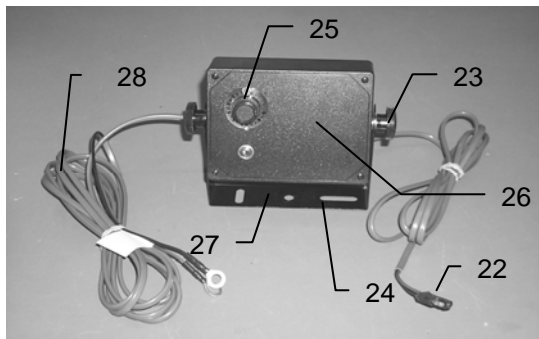
Gauge Assembly for 440



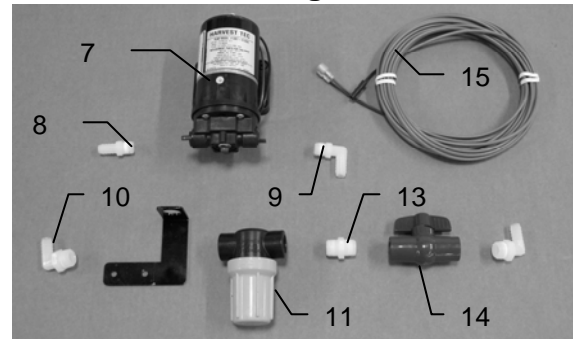
Drain/Fill for 440



Electronic Control for 440

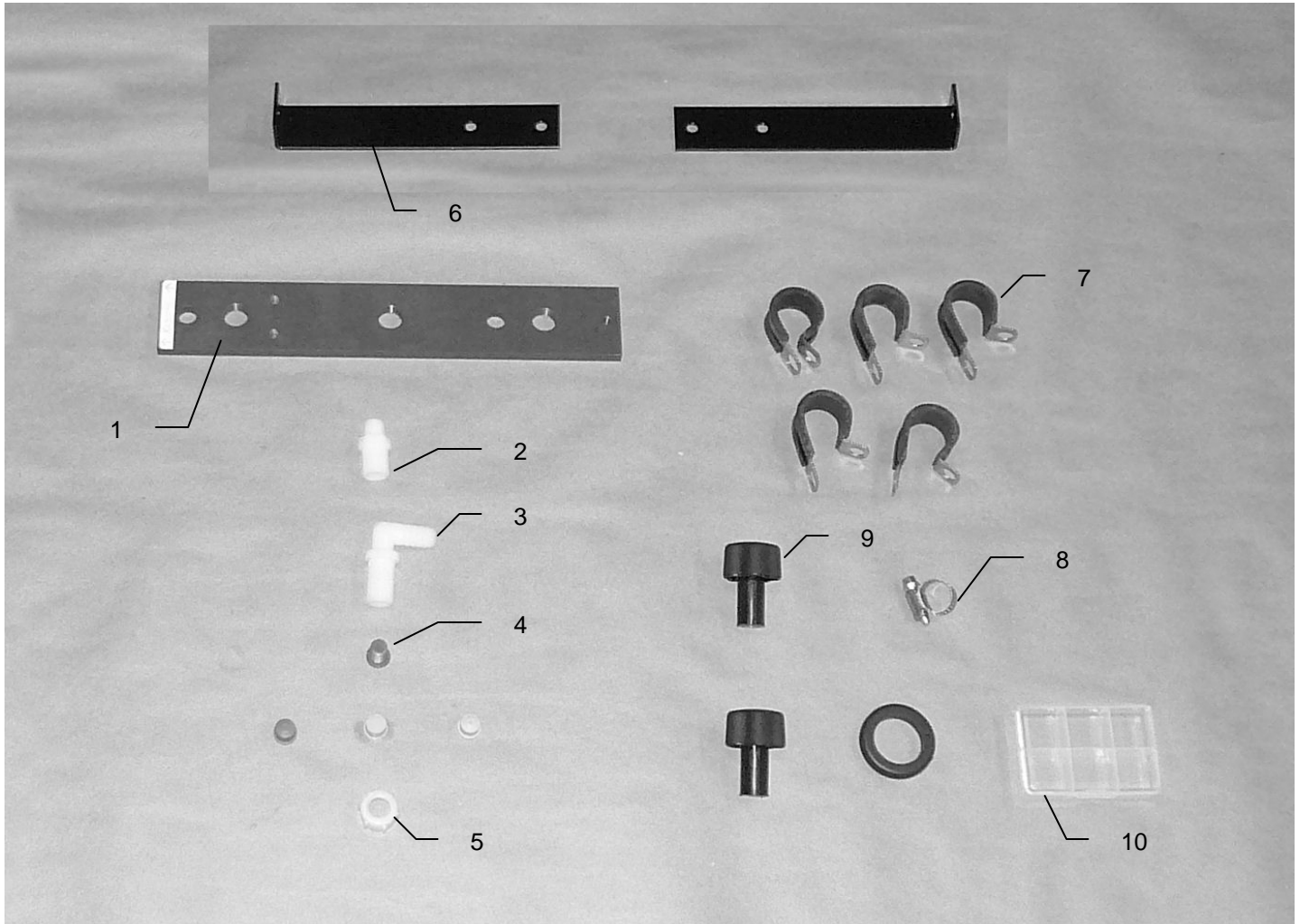


Parts Bag for 440



<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Tank	005-9203SQ	1	21	Door latch	001-4703CL	1
2	Tank lid	005-9022G	1	22	Pump lead	006-4583	1
3	Tank straps	001-4402	2	23	Control box knob	008-0923	2
4	Short strap base	001-4703CC	2	24	U-bracket	001-2012E	1
NP	Long strap base	001-4703CD	2	25	Speed control knob	006-2022A	1
5	Tank fitting	005-9100	2	26	Control box complete	030-0457	1
6	Tank saddle	001-4703C	1	27	Crop eye plug	006-7500Z	1
7	Pump	007-4120S	1	28	Power harness	006-4580C	1
8	Straight fitting	003-A3812	1	29	Straight fitting	003-A3434	1
9	Elbow	003-EL3812	1	30	Ball valve	002-2200	1
10	Elbow	003-EL1212	2	31	Valve holder	001-6702H	1
11	Filter bowl assembly	002-4315	1	32	Female coupler	002-2204A	1
12	Filter holder	001-4703CH	1	33	Male coupler	002-2205G	1
13	Nipple	003-M1212	1	34	Elbow	003-EL3434	1
14	Ball valve	002-2212	1	35	Jiffy clip	008-9010	3
15	Pump lead	006-4574	1	36	Hose clamp	003-9004	2
16	Gauge	002-2208Z	1	NP	#6 Hose clamp	003-9003	7
17	Straight fitting	003-A1412	2	NP	Screen-80 mesh	002-4315B	1
18	Tee	003-TT14	1	NP	Filter bowl only	002-4315F	1
19	Gauge bracket	001-4717	1	NP	Filter bowl gasket	002-4315D	1
20	Elbow	003-EL1412	1	NP	Not Pictured		

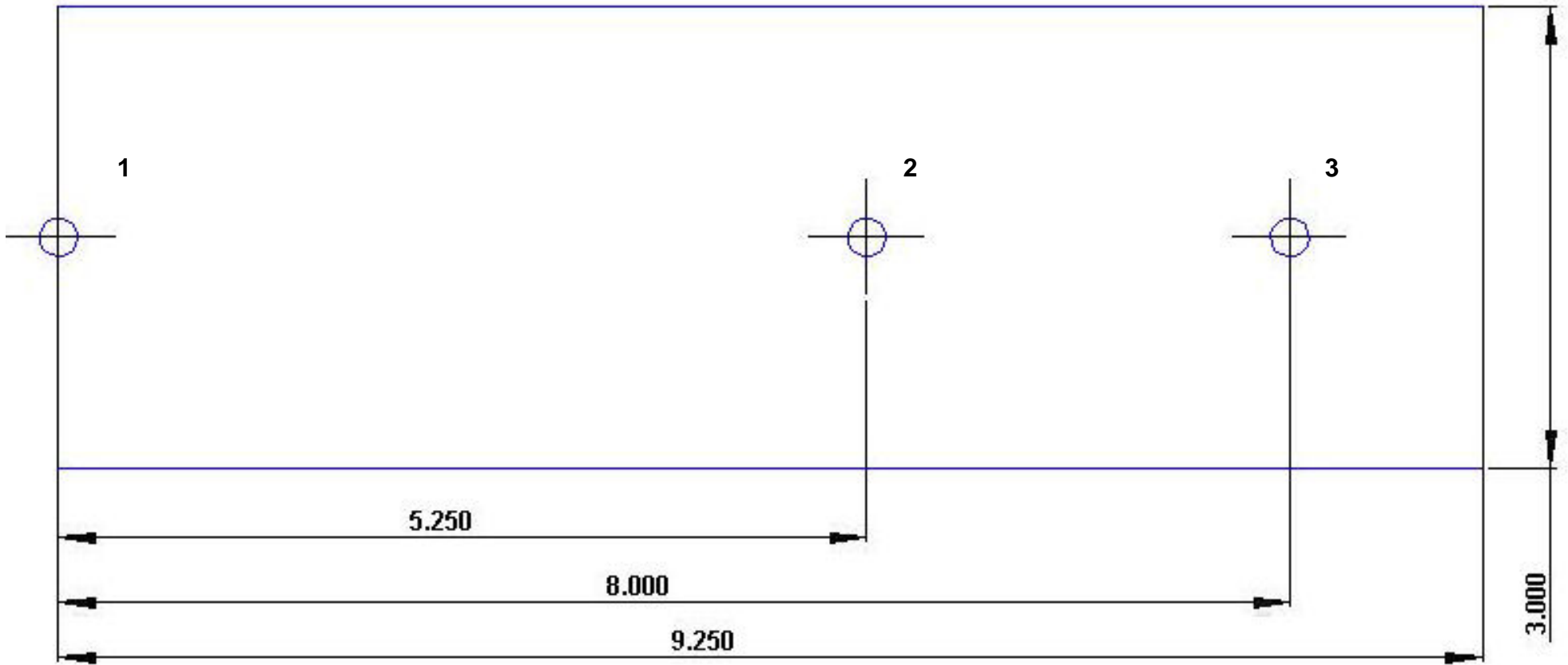
HARVEST TEC MODEL 4415- SO INSTALLATION KIT FOR NEW HOLLAND 570 – 580, BC5060 – BC5080 AND CASE SBX 530 – 550, SB531 – SB551 CONVENTIONAL SQUARE BALERS



<u>Ref</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>	<u>Description</u>	<u>Part#</u>	<u>Qty</u>
1	Spray shield	001-4425C	1	Tip	004-TX-SS-6 (Orange)	1
2	Drill guide	003-M3814NB	1	Tip	004-TX-SS-12 (Blue)	1
3	Elbow	003-EL3812NB	1	Tip	004-TX-SS-26 (Yellow)	1
4	Tip strainer	004-4213-100	1			
5	Nozzle cap	003-BC12	1			
6	Bracket	001-4425B	2			
7	Jiffy clip	008-9010	5			
8	Hose clamp	003-9003	1			
9	Knob	008-0925	2			
10	Tip box	009-9001	1			

NOTES:

← KNIFE



4415 Spray shield
template

WARRANTY AND LIABILITY AGREEMENT

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

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

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

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

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

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

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