

# Installation Manual

## ***Model 436K, 438K & 439K 20 Gallon Electronic Preservative Applicators***



HarvestTec<sup>®</sup>

EST. 1976

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## **Introduction**

Congratulations and thank you for purchasing a Harvest Tec Electronic Preservative Applicator system. Read this manual carefully to ensure correct steps are followed to attach the applicator to the baler. This applicator is designed to apply Harvest Tec buffered propionic acid. **Use of alternative products may cause complications and voids warranty.** Complications may include inaccurate readings from the pressure gauge and damage to system components.

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

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

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

## **Tools Needed**

|                                     |                |                   |
|-------------------------------------|----------------|-------------------|
| SAE wrench set                      | Side cutter    | SAE socket set    |
| Standard screw driver               | Hose cutter    | Drill bit set     |
| Crescent wrench                     | Hammer         | Center punch      |
| 1-1/2" hole saw (4415 install only) | Measuring tape | Metric socket set |

## Tank Saddle Kit (030-0436K-TK)

### 736K & 436K Base Kits



| <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 Bracket        | 001-4704KA    | 1          | 8          | 20 Gallon Tank     | 005-4705T     | 1          |
| 2          | U-Bracket           | 001-4704KB    | 1          | 9          | Tank Fitting       | 005-9100      | 2          |
| 3          | Mounting Bracket LH | 001-4704KC    | 1          | NP         | Tank Cap           | 005-9022C     | 1          |
| 4          | Mounting Bracket RH | 001-4704KD    | 1          | NP         | Elbow              | 003-EL3434    | 1          |
| 5          | Support Bracket LH  | 001-4704KH    | 1          | NP         | Street Elbow       | 003-SE34      | 1          |
| 6          | Support Bracket RH  | 001-4704KI    | 1          |            |                    |               |            |
| 7          | Toolbox Bracket     | 001-4704KJ    | 1          |            |                    |               |            |

**Complete Assembly      030-0436K-TK**

## Tank Saddle Kit (030-0436K-TK) 736K & 436K Applicator Kits

### Tank Mounting Brackets Installation

Locate the Left and Right Mounting Brackets (001-4704KC and 001-4704KD) and secure them to the baler frame at point B in Figure 1 below using the existing six bolts and nuts (Figure 2) that bolt the tongue to the baler frame. Tighten all hardware.



Figure 1



Figure 2

Locate the Tank Saddle U-bracket (001-4704KB) and line it up over the baler tongue so it matches up with the Mounting Brackets (001-4704KC & 001-4704KD) at points C and D as shown below (Figure 3). Fasten 001-4704KB to the Left Saddle Leg (001-4704KC) at point C using two 1/2" x 2" bolts, flats, locks, and nuts. Do the same with 001-4704KB to the Right Saddle Leg (001-4704KD) at point D using two 1/2" x 2" bolts, flats, locks, and nuts.

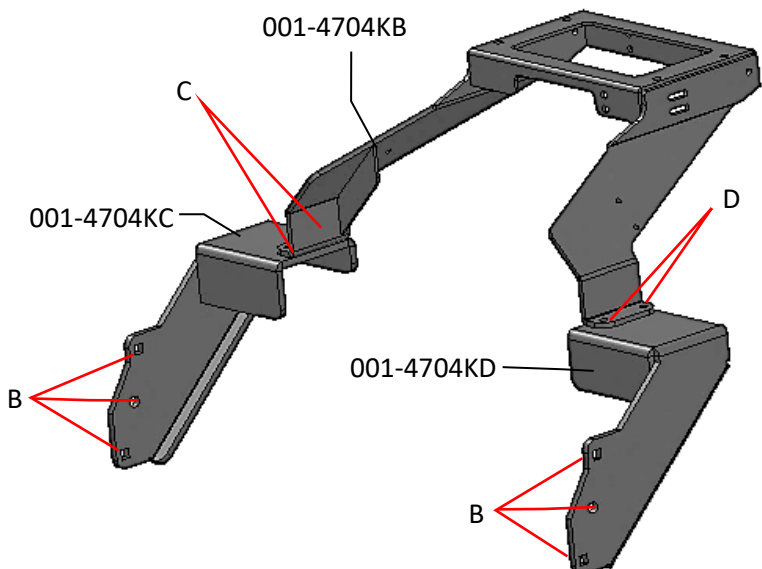
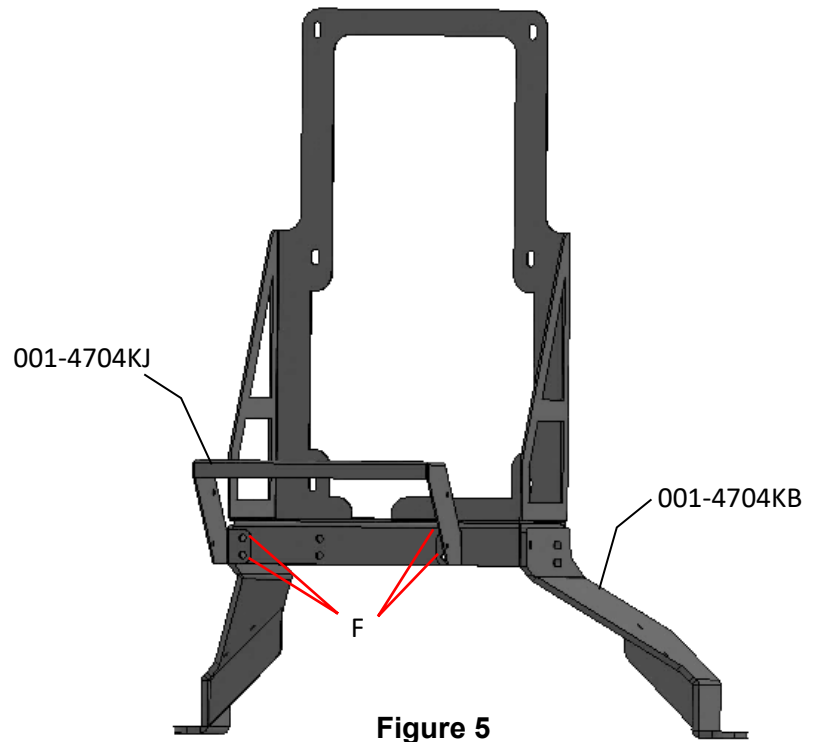
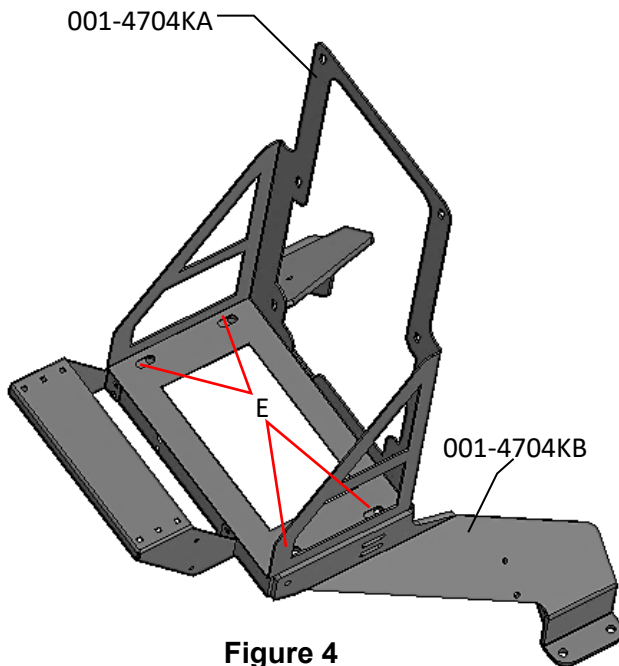


Figure 3

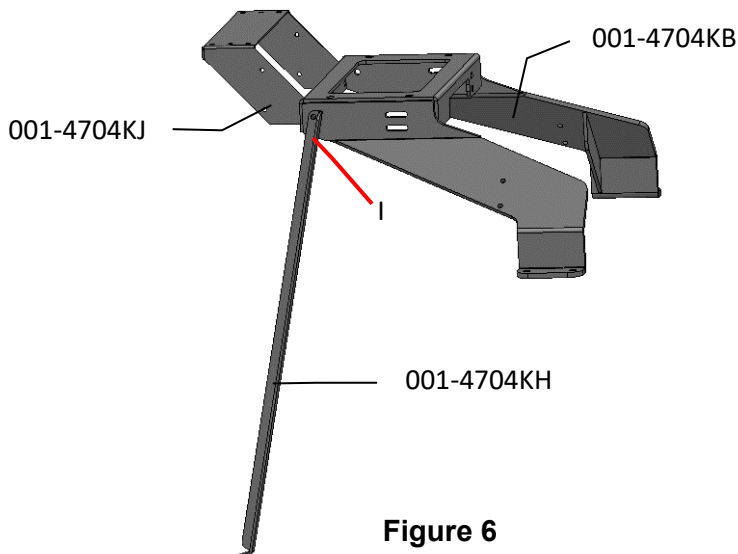


## Tank Mounting Brackets Installation (736K & 436K kits, continued)

Locate the tank bracket (001-4704KA) as shown (Figure 4). Fasten 001-4704KA to the Tank Saddle U-Bracket (001-4704KB) at the four corners at the bottom of 001-4704KA, reference point E, using 1/2" x 1 1/2" bolts, locks, flats, and nuts. Tank may need to be removed from the tank bracket (001-4704KA) to do this. The bolt heads and flat washers should be on the top. Locate the toolbox bracket (001-4704KJ) as shown in Figure 5. Fasten 001-4704KJ to 001-4704KB with four 3/8" x 1 1/4" bolts, locks, flats, and nuts as shown at point F.

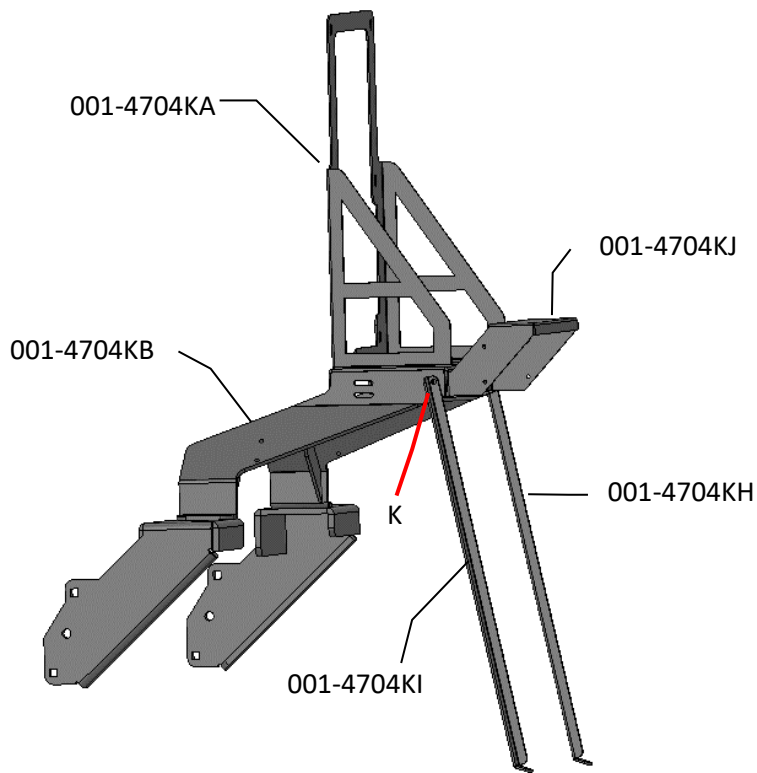


Locate the support bracket LH (001-4704KH) and fasten it to the outside of the U-Bracket (001-4704KB) shown at point I in figure 6 below using one 3/8" x 1 1/4" bolts, flats, locks, and nuts. Drill a 3/8" hole in the baler tongue and fasten 001-4704KH to the baler tongue using a 3/8" x 1 1/4" bolt, lock, flat, and nut at point J as shown in figure 7.

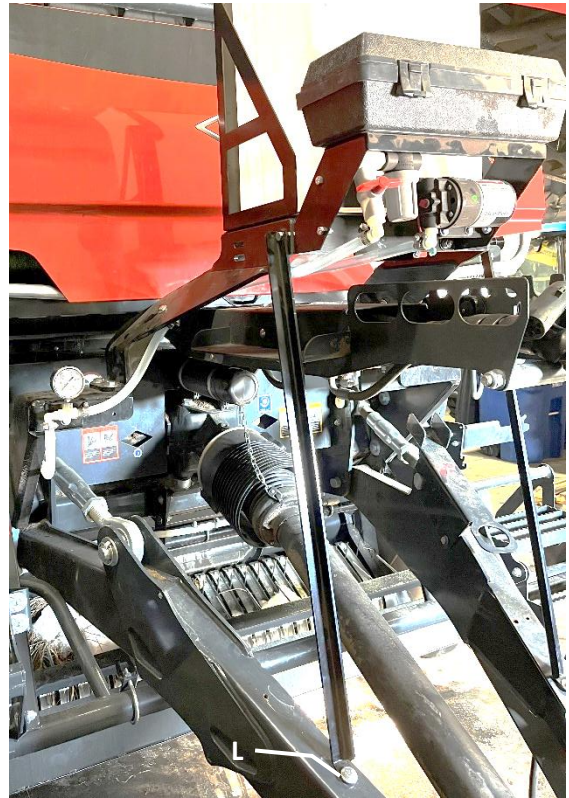


## Tank Mounting Brackets Installation (736K & 436K kits, continued)

*Note – removal of Kuhn factory toolbox bracket is required. Remove and discard bracket. Relocate toolbox to 001-4704KJ bracket. Locate the support bracket RH (001-4704KI) and fasten it to the outside of the U-Bracket (001-4704KB) shown at point K in figure 8 using 3/8" x 1 1/4" bolts, locks, flats, and nuts. Drill a 3/8" hole in the baler tongue and fasten 001-4704KI to the baler tongue using a 3/8" x 1 1/4" bolt, lock, flat, and nut at point L in Figure 9.*



**Figure 8**



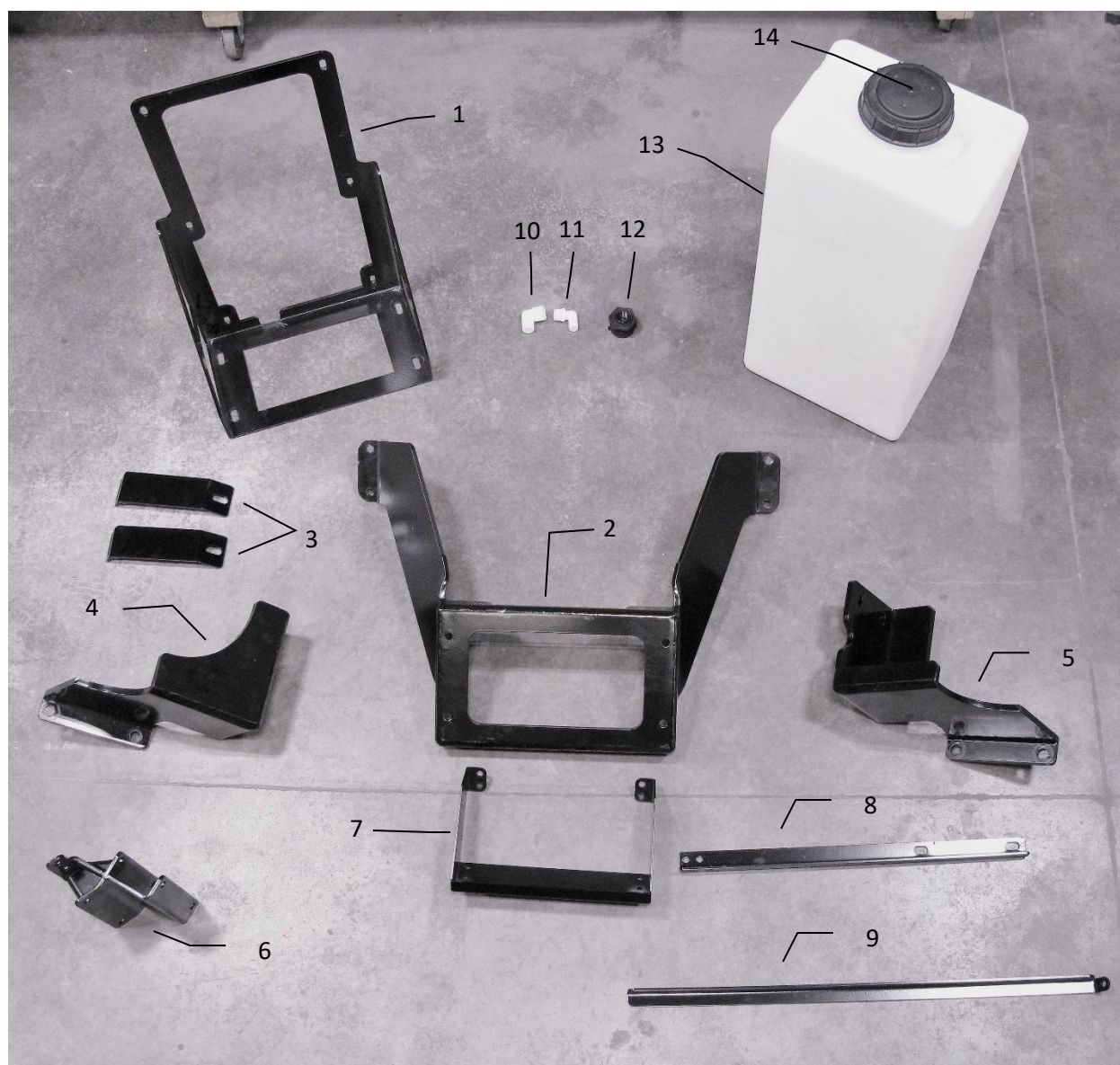
**Figure 9**

Locate the Tank (005-4705T) and fasten it to the tank bracket (001-4704KA) using six 5/16" x 3/4" bolts, internal tooth lock washers, and flats as shown in Figure 10. Tighten all hardware.



**Figure 10**

# **Tank Saddle Kit (030-0438K-TK)** **Model 738K & 438K Base Kit**



| <u>Ref</u> | <u>Description</u>                 | <u>Part #</u> | <u>Qty</u> | <u>Ref</u>                                     | <u>Description</u> | <u>Part #</u> | <u>Qty</u> |
|------------|------------------------------------|---------------|------------|------------------------------------------------|--------------------|---------------|------------|
| 1          | Tank Bracket (V2)                  | 001-4704KA    | 1          | 10                                             | Elbow              | 003-EL3434    | 1          |
| 2          | U-Bracket (V2)                     | 001-4704KB    | 1          | 11                                             | Street Elbow       | 003-SE34      | 1          |
| 3          | Frame Mount Stiffener Bracket (V1) | 001-4704KS    | 2          | 12                                             | Tank Fitting       | 005-9100      | 2          |
| 4          | Mounting Bracket LH (V2)           | 001-4704KE    | 1          | 13                                             | 20 Gallon Tank     | 005-4705T     | 1          |
| 5          | Mounting Bracket RH (V2)           | 001-4704KF    | 1          | 14                                             | Tank Cap           | 005-9022C     | 1          |
| 6          | Jack Bracket Assembly (V1)         | 001-4704KM    | 1          |                                                |                    |               |            |
| 7          | Toolbox Bracket (V2)               | 001-4704KJ    | 1          |                                                |                    |               |            |
| 8          | Support Bracket (V1)               | 001-4704KG    | 1          |                                                |                    |               |            |
| 9          | Tank Mount Stiffener Bracket (V1)  | 001-4704KR    | 1          |                                                |                    |               |            |
|            |                                    |               |            | <b>Complete Assembly Kit      030-0438K-TK</b> |                    |               |            |

# Tank Saddle Kit 030-0438K-TK 738K & 438K Applicator Kits

## Tank Mounting Brackets Installation

Locate the Frame Mount Stiffener Brackets (001-4704KS) and Left and Right Mounting Brackets (001-4704KE/ 4704KF) as seen in Figure 1. Fasten one 001-4704KS to each the Left and Right Mounting Brackets at Point A using two of the supplied  $\frac{3}{8}$ " x 1  $\frac{1}{4}$ " bolts for each Stiffener Bracket.

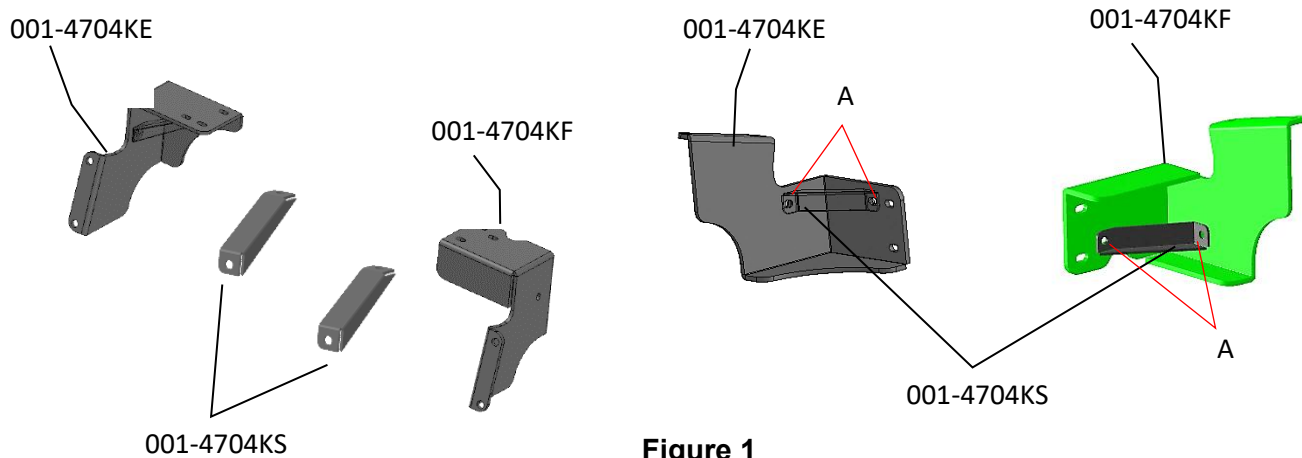


Figure 1

Secure the left and right mounting brackets (001-4704KE and 001-4704KF) to the baler frame at point B in figure 2 using the existing six bolts and nuts that bolt the tongue to the baler frame. Tighten all hardware.

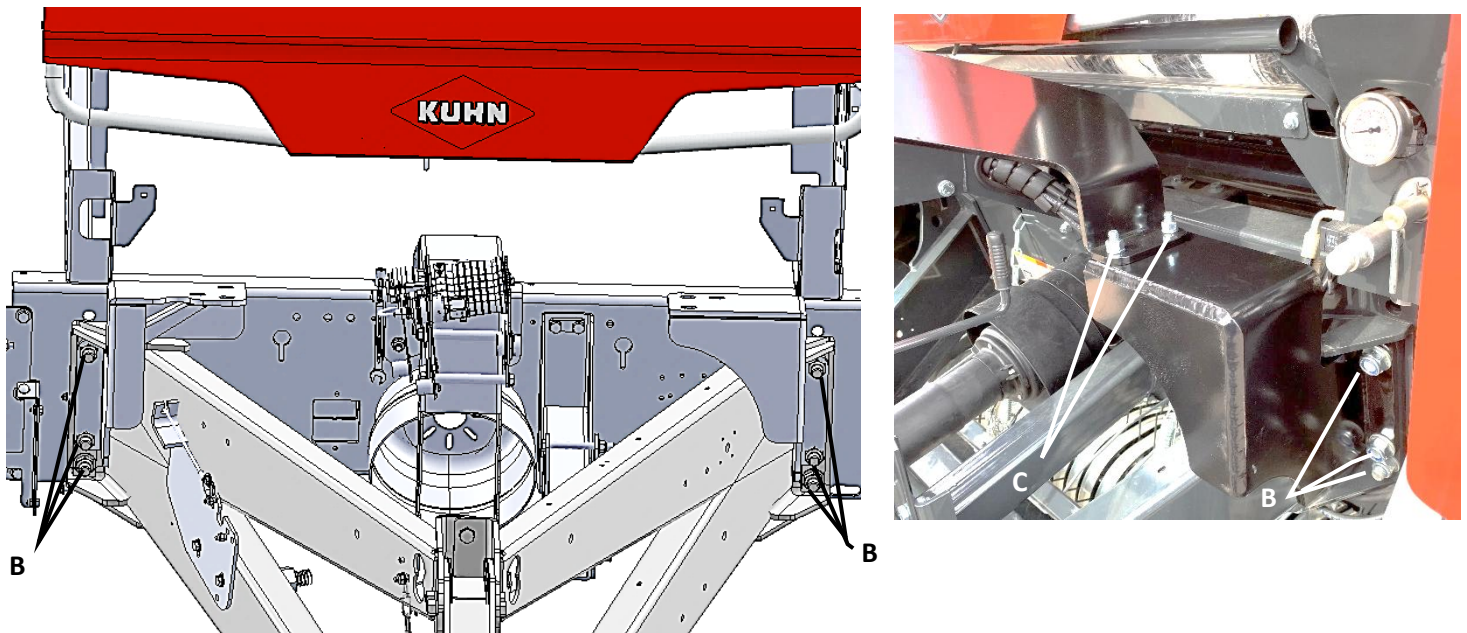


Figure 2

## Tank Mounting Brackets Installation (738K & 438K kits, continued)

Locate the Tank Saddle U-Bracket (001-4704KB) and line it up over the baler tongue so it matches up with the Tank Saddle Legs (001-4704KE & 001-4704KF) at Point C and D as shown in Figure 3. Fasten 001-4704KB to the Left Saddle Leg (001-4704KE) at Point C using two 1/2" x 2" bolts, flats, locks, and nuts. Do the same with 001-4704KB to the Right Saddle Leg (001-4704KF) at Point D using two 1/2" x 2" bolts, flats, locks, and nuts.

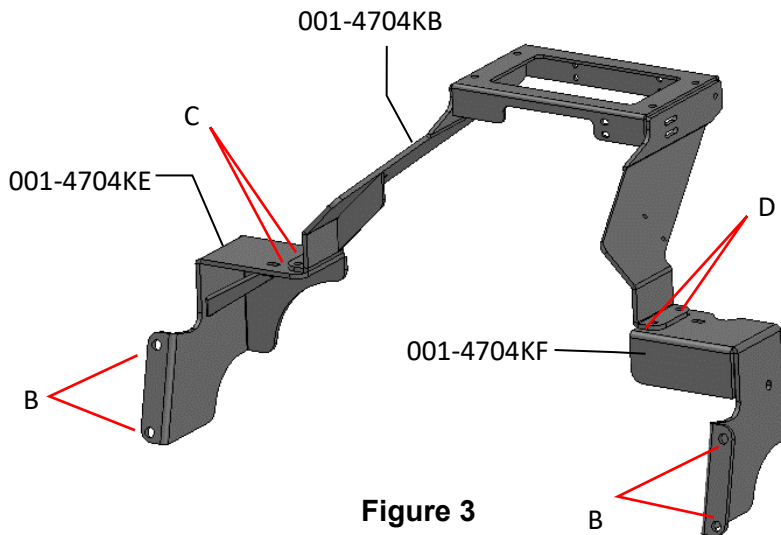


Figure 3

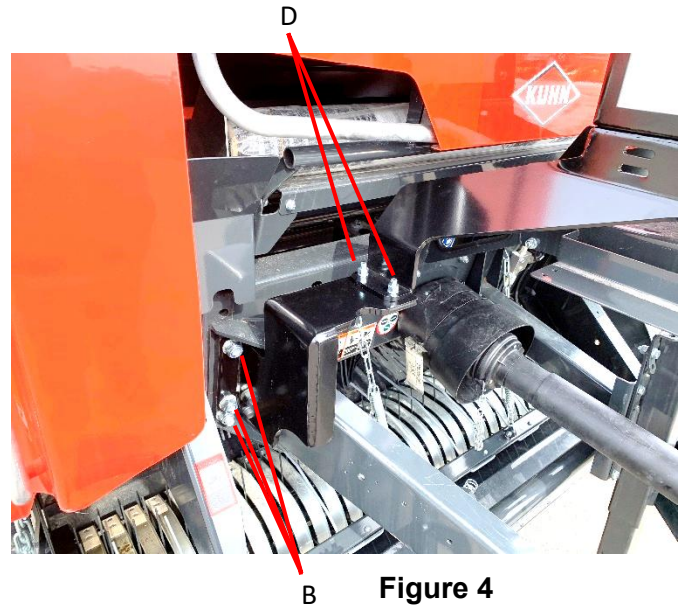


Figure 4

Locate the Tank Bracket (001-4704KA) as shown in Figure 5. Fasten Tank Bracket (001-4704KA) to the Tank Saddle U-Bracket (001-4704KB) with four 1/2" x 1 1/2" bolts, locks, flats, and nuts at the four corners at the bottom of 001-4704KA as shown at Point E. Tank may need to be removed from the Tank Bracket (001-4704KA) to do this. The bolt heads and flat washers should be on the top. Locate the Toolbox Bracket (001-4704KJ) as shown in Figure 6. Fasten 001-4704KJ to 001-4704KB with four 3/8" x 1 1/4" bolts, locks, flats, and nuts as shown at Point F.

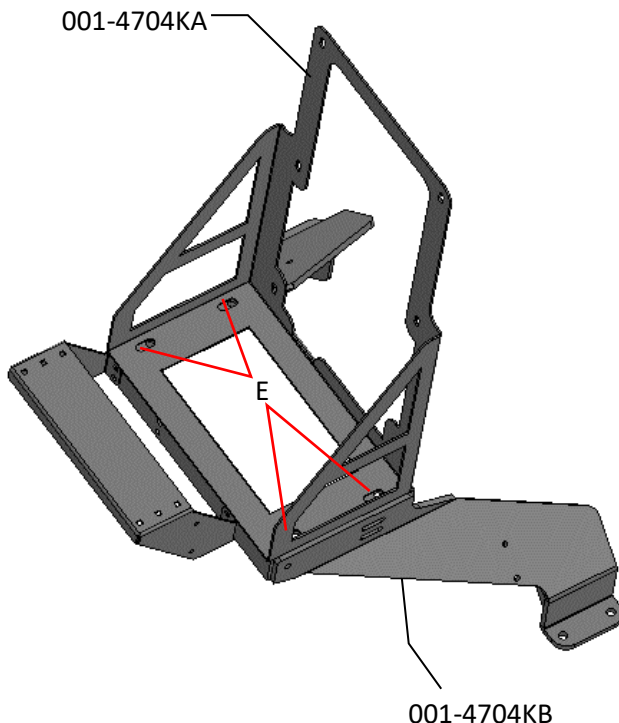


Figure 5

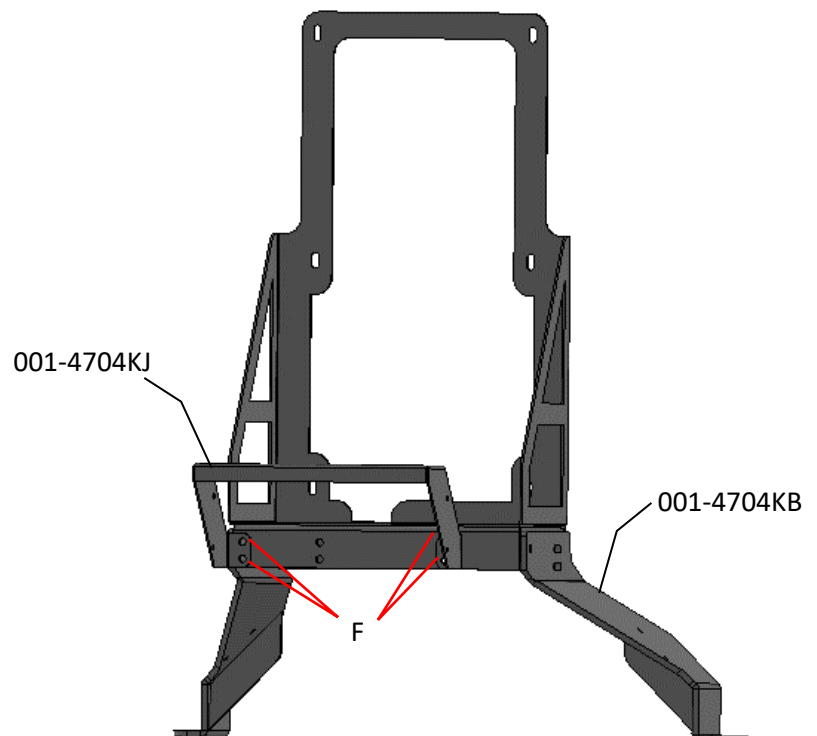


Figure 6

## Tank Mounting Brackets Installation (738K & 438K kits, continued)

If your baler has a sidewind jack, complete the next steps. If your baler does not have a sidewind jack, skip to the tank installation on page 7.

Locate the Jack Bracket Assembly (001-4704KM) and fasten it to the existing jack mounted on the baler shown at Point G in Figure 7 using two 1/2" x 4 1/2" bolts, flats, locks, and nuts. Locate the Support Bracket (001-4704KG) and fasten it to the top hole on the Jack Bracket Assembly (001-4704KM) shown at Point H in Figure 8 using a 1/2" x 1 1/2" bolt, flat, lock and nut. End of the Support Bracket (001-4704KG) may have to be cut at the notch to fit the baler.

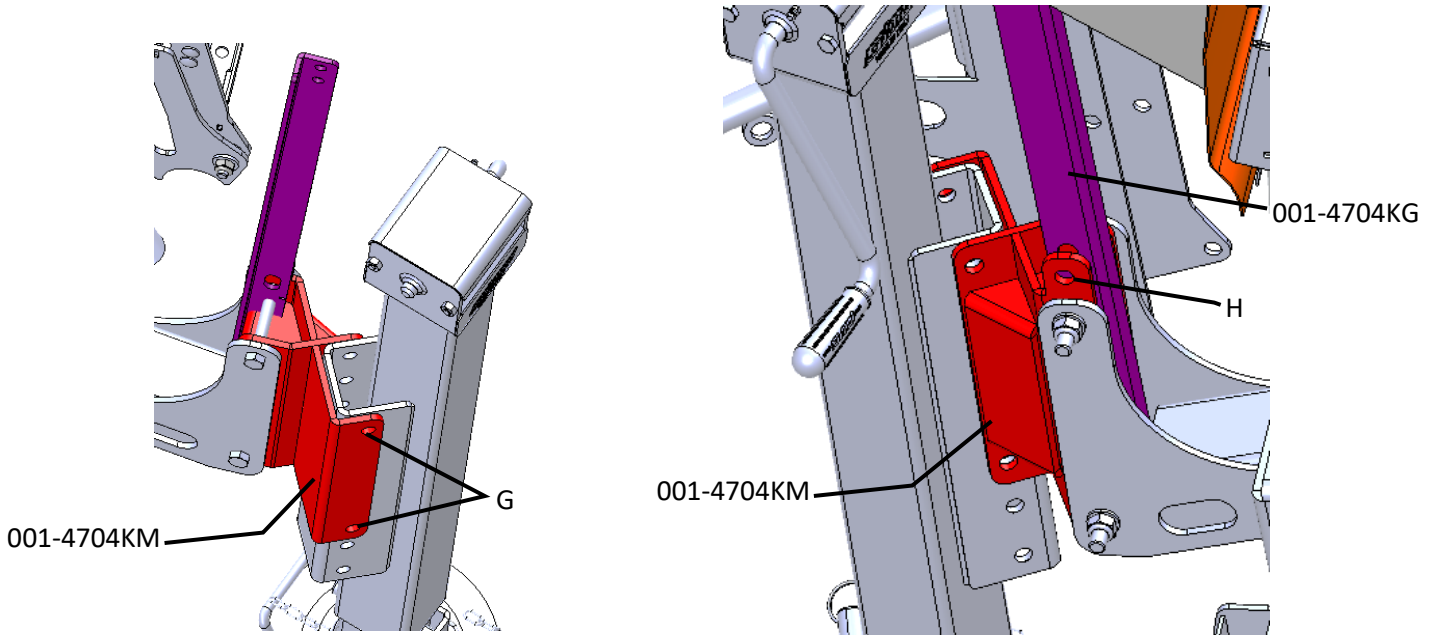


Figure 7

Figure 8

Locate the Support Bracket (001-4704KG) and fasten it to the inside of the U-Bracket (001-4704KB) shown at Point I in Figure 9 below using two 3/8" x 1 1/4" bolts, flats, locks, and nuts.

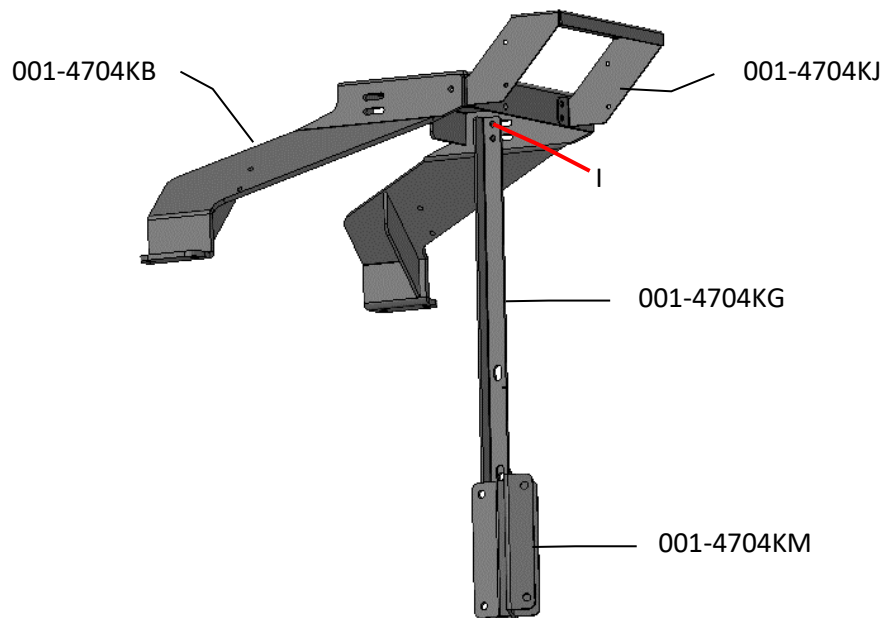
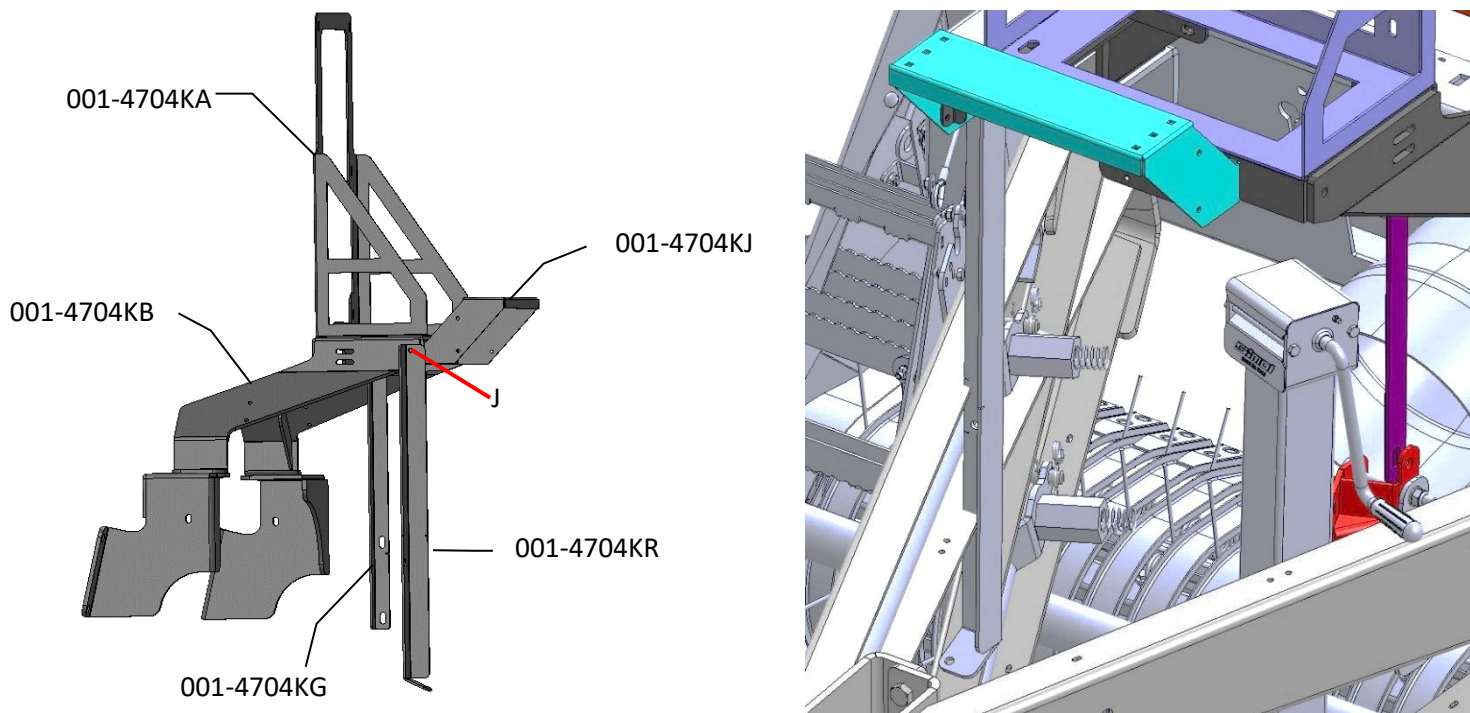


Figure 9

## Tank Mounting Brackets Installation (738K & 438K kits, continued)

*Note – removal of Kuhn factory tool box bracket is required. Remove and discard bracket. Relocate tool box to 001-4704KJ bracket.* Locate the mounting bracket (001-4704KR) and fasten it to the outside of the U-Bracket (001-4704KB) shown at point J in Figure 10 using 3/8" x 1 1/4" bolts, locks, flats, and nuts. Drill a 3/8" hole in the baler tongue and fasten 001-4704KR to the baler tongue using a 3/8" x 1 1/4" bolt, lock, flat, and nut.



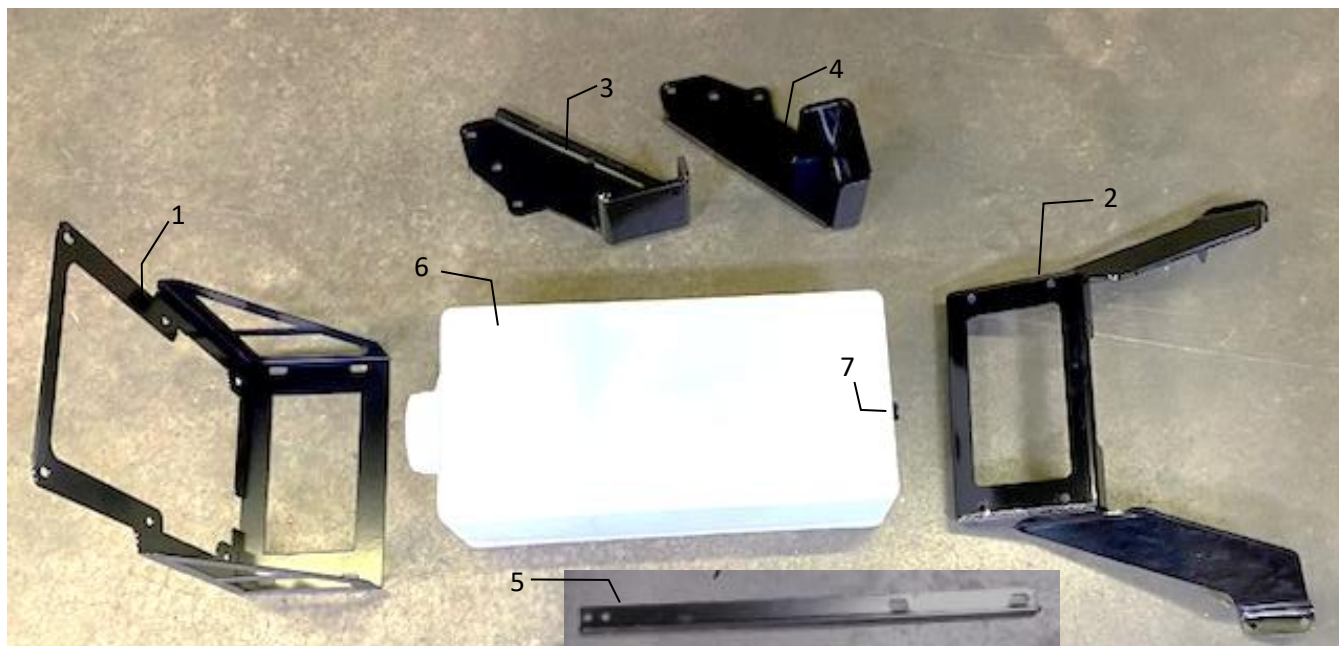
**Figure 10**

Locate the tank (005-4705T) and fasten it to the tank bracket (001-4704KA) using six 5/16" x 3/4" bolts, internal tooth lock washers, and flats as shown in Figure 11. Tighten all hardware.



**Figure 11**

# **Tank Saddle Kit (030-0439K-TK)** **Model 739K & 439K Base Kit**



| <u>Ref</u> | <u>Description</u>  | <u>Part #</u> | <u>Qty</u> | <u>Ref</u> | <u>Description</u> | <u>Part #</u> | <u>Qty</u> |
|------------|---------------------|---------------|------------|------------|--------------------|---------------|------------|
| 1          | Tank Bracket        | 001-4704KA    | 1          | 6          | 20 Gallon Tank     | 005-4705T     | 1          |
| 2          | U-Bracket           | 001-4704KB    | 1          | 7          | Tank Fitting       | 005-9100      | 2          |
| 3          | Mounting Bracket LH | 001-4704KC    | 1          | NP         | Tank Cap           | 005-9022C     | 1          |
| 4          | Mounting Bracket RH | 001-4704KD    | 1          | NP         | Elbow              | 003-EL3434    | 1          |
| 5          | Support Bracket     | 001-4704KG    | 1          | NP         | Street Elbow       | 003-SE34      | 1          |

**Complete Assembly Kit**

**030-0439K-TK**

## Tank Saddle Kit (030-0439K-TK)

### 739K & 439K Applicators

#### Installing Tank Mounting Brackets

Locate the left and right mounting brackets (001-4704KC and 001-4704KD) and secure them to the baler frame at Point B in Figure 1 using the existing six bolts and nuts that bolt the tongue to the baler frame. Tighten all hardware.

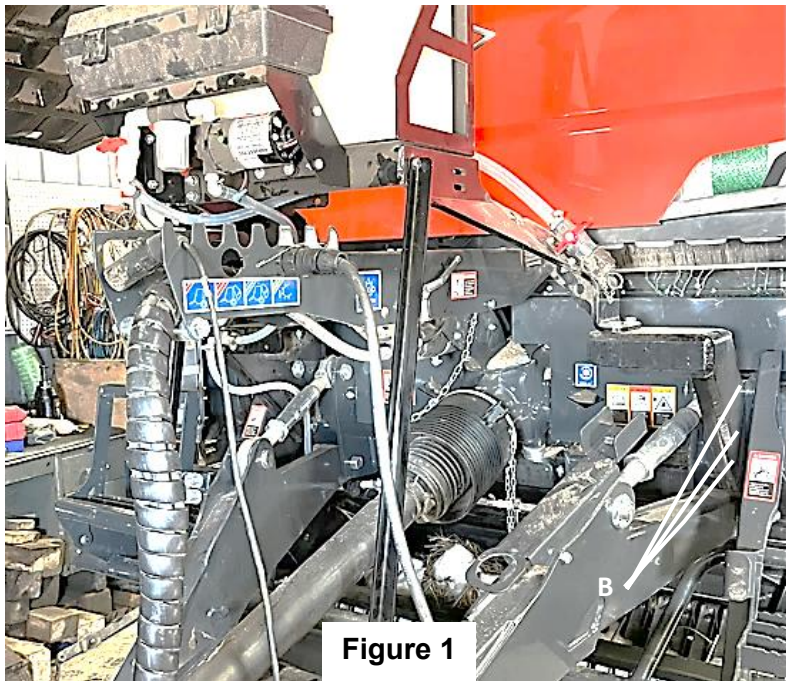


Figure 1



Locate the tank saddle U-bracket (001-4704KB) and line it up over the baler tongue so it matches up with the tank saddle legs (001-4704KC & 001-4704KD) at Points C and D as shown in figure 2. Fasten 001-4704KB to the left saddle leg (001-4704KC) at Point C using two 1/2" x 2" bolts, flats, locks, and nuts. Do the same with 001-4704KB to the right saddle leg (001-4704KD) at Point D using two 1/2" x 2" bolts, flats, locks, and nuts.

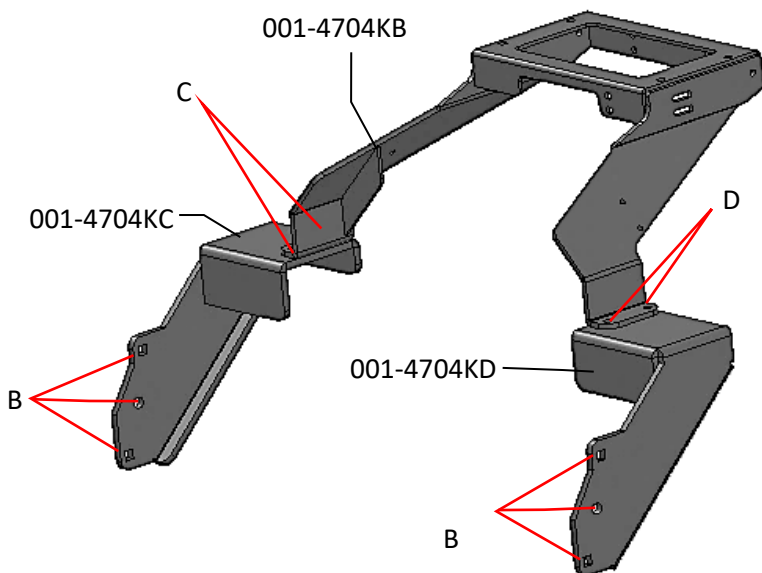


Figure 2

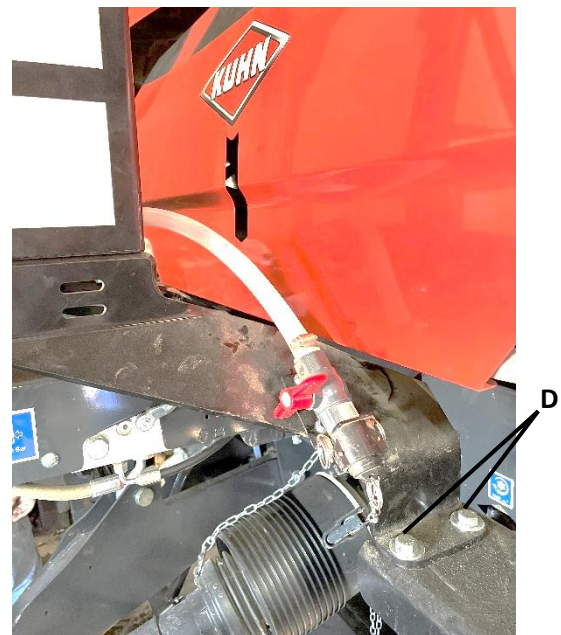
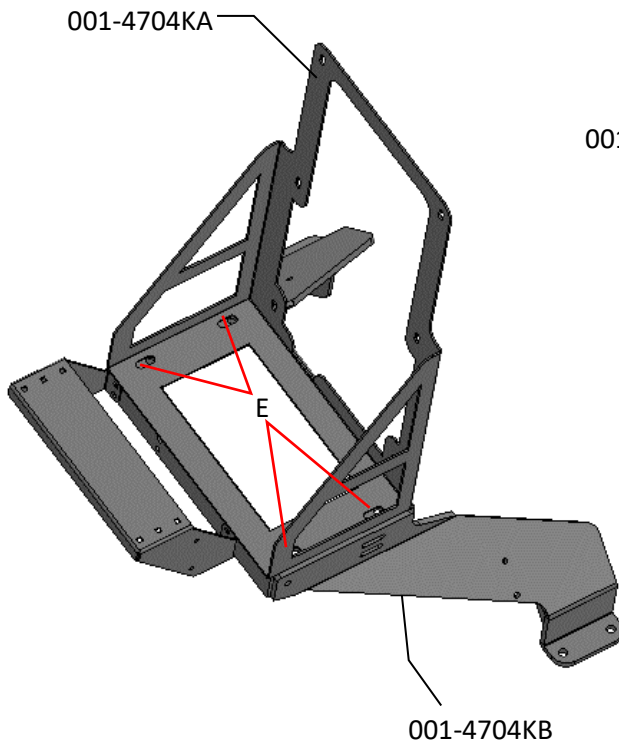


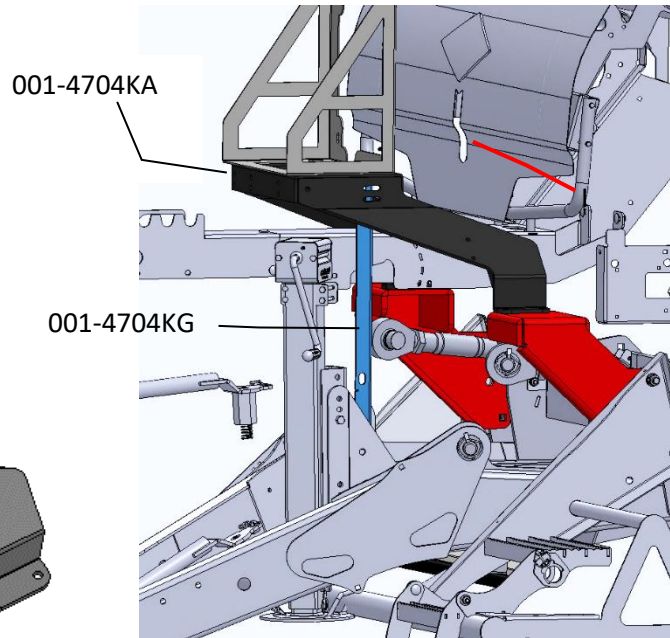
Figure 3

## Installing Tank Mounting Brackets (739K & 479K kits, continued)

Locate the tank bracket (001-4704KA) as shown in Figure 4. Fasten 001-4704KA to the tank saddle U-Bracket (001-4704KB) with four  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " bolts, locks, flats, and nuts at the four corners at the bottom of 001-4704KA as shown at Point E. Tank may need to be removed from the tank bracket (001-4704KA) to do this. The bolt heads and flat washers should be on the top.



**Figure 4**



**Figure 9**

Locate the support bracket (001-4704KG) and fasten it to the inside of the U-Bracket (001-4704KB) shown at point I in Figure 9 above using two  $\frac{3}{8}$ " x  $1\frac{1}{4}$ " bolts, flats, locks, and nuts. Attach support bracket to baler jack bracket with a  $\frac{1}{2}$ " x  $1\frac{1}{4}$ " bolt, washer, lock and nut.

Locate the tank (005-4705T) as shown in Figure 10 and fasten it to the tank bracket (001-4704KA) using six  $\frac{5}{16}$ " x  $\frac{3}{4}$ " bolts, internal tooth lock washers, and flats. Tighten all hardware.



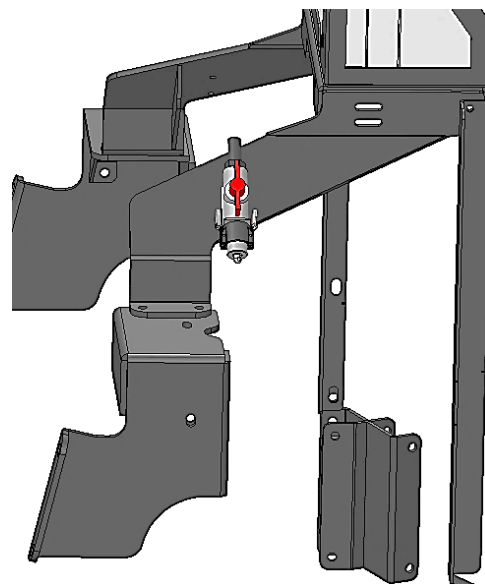
**Figure 10**

## Drain Fill Kit (030-0493DFK)

### 736K, 738K, 739K -700 Series Applicator Kits 436K, 438K, 439K -Electronic Applicator Kits

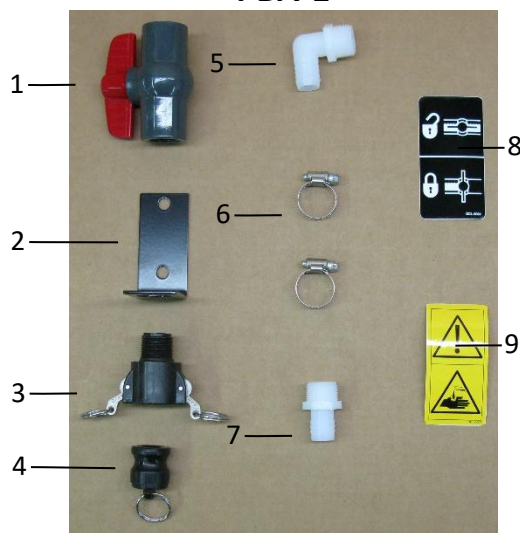
#### Installation

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



## Parts Bag Packages & Hoses

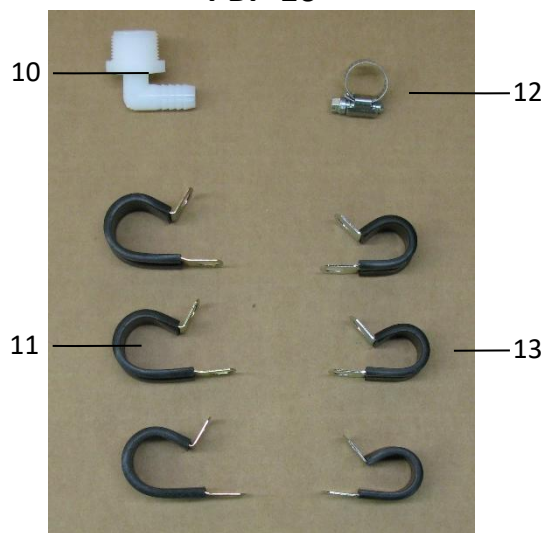
### PBA-1



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

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

### PBP-16

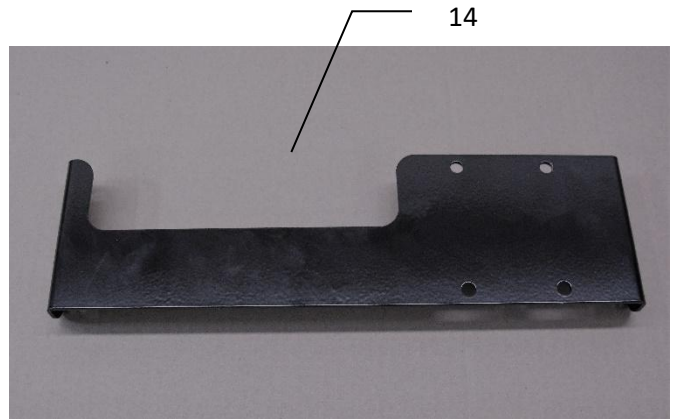
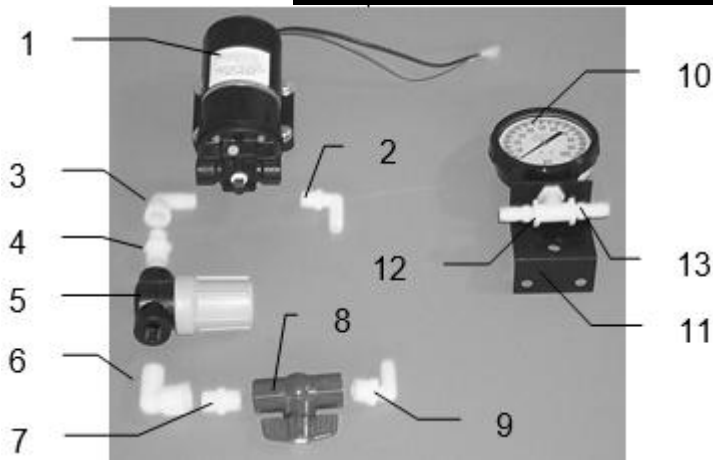


| Ref | Description       | Part #     | Qty |
|-----|-------------------|------------|-----|
| 10  | 3/4" x 1/2" Elbow | 003-EL3412 | 1   |
| 11  | 3/4" Jiffy Clip   | 008-9010   | 3   |
| 12  | #6 Hose Clamp     | 003-9003   | 1   |
| 13  | Small Jiffy Clip  | 008-9009   | 3   |

### RB Hoses – Electronic Systems

|                             |          |       |
|-----------------------------|----------|-------|
| 1/2" Hose<br>(Pump to Tips) | 002-9001 | 15 ft |
| 3/4"<br>(Drain/Fill Line)   | 002-9002 | 6 ft  |

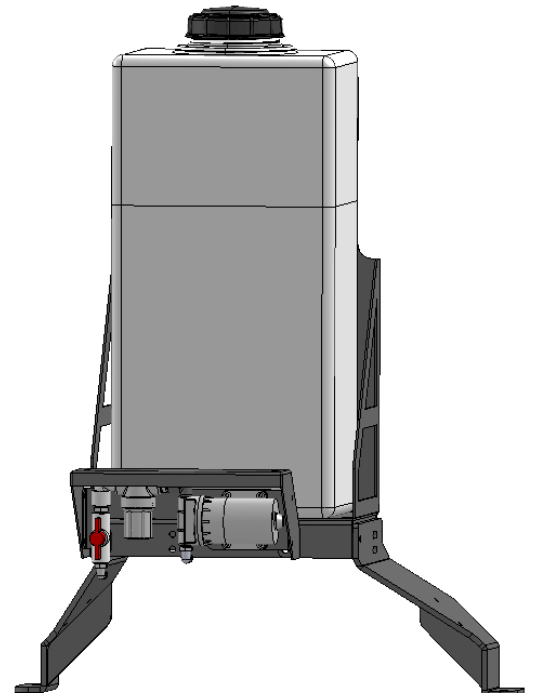
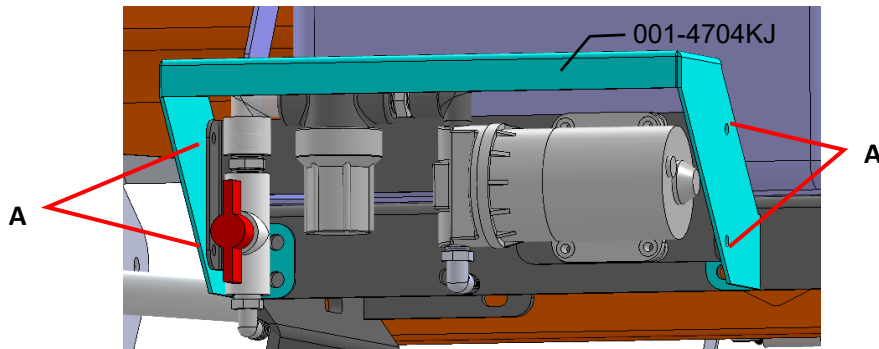
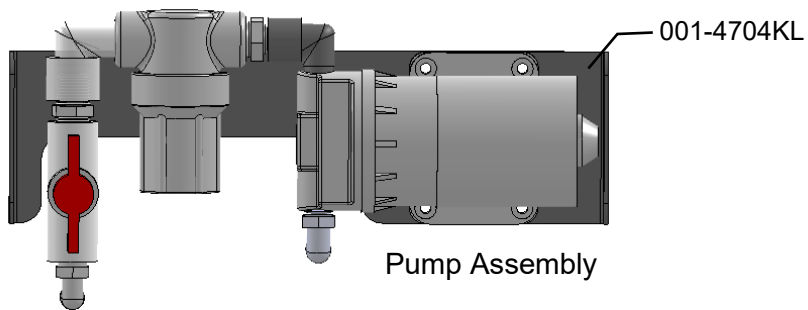
## Pump and Gauge Assembly Breakdowns



| <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          | Pump                 | 007-4120S     | 1          | 8          | Ball valve         | 002-2212      | 1          |
| 2          | Elbow fitting        | 003-EL3812    | 1          | 9          | Elbow fitting      | 003-EL1212    | 1          |
| 3          | Street elbow         | 003-SE38      | 1          | 10         | Gauge              | 002-2208Z     | 1          |
| 4          | Nipple fitting       | 003-M1238     | 1          | 11         | Gauge bracket      | 001-4717      | 1          |
| 5          | Filter bowl assembly | 002-4315      | 1          | 12         | Tee                | 003-TT14      | 1          |
| 6          | Street elbow         | 003-SE12      | 1          | 13         | Straight fitting   | 003-A1412     | 2          |
| 7          | Nipple fitting       | 003-M1212     | 1          | 14         | Pump Bracket       | 001-4704KL    | 1          |

### **Pump Mounting – 436K, 438K & 439K Kits**

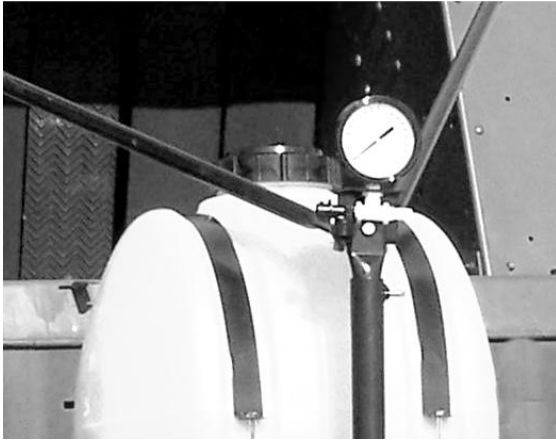
Use four 3/8" x 1-1/4" bolts, locks, and flat washers to mount the pump bracket (001-4704KL) with assembly to the inside of the toolbox bracket (001-4704KJ) using pre-drilled holes (**A**) as shown below.



## Installation of Gauge

Mount the gauge to the tank frame or the frame of the baler. If mounting the gauge to the baler, make sure it does not interfere with any of the baler's operation or servicing the baler. Drill two 3/8" holes and mount pressure gauge bracket to sheet metal. Bend the gauge bracket to adjust the angle if needed.

Connect the hose between the pump and the gauge. Run the plumbing from the gauge to the check valve on the spray shield. Connect the disconnect to the end of the hose from the gauge and to the check valve. Secure to baler using the padded jiffy clips provided. Use hose clamps on all connections.



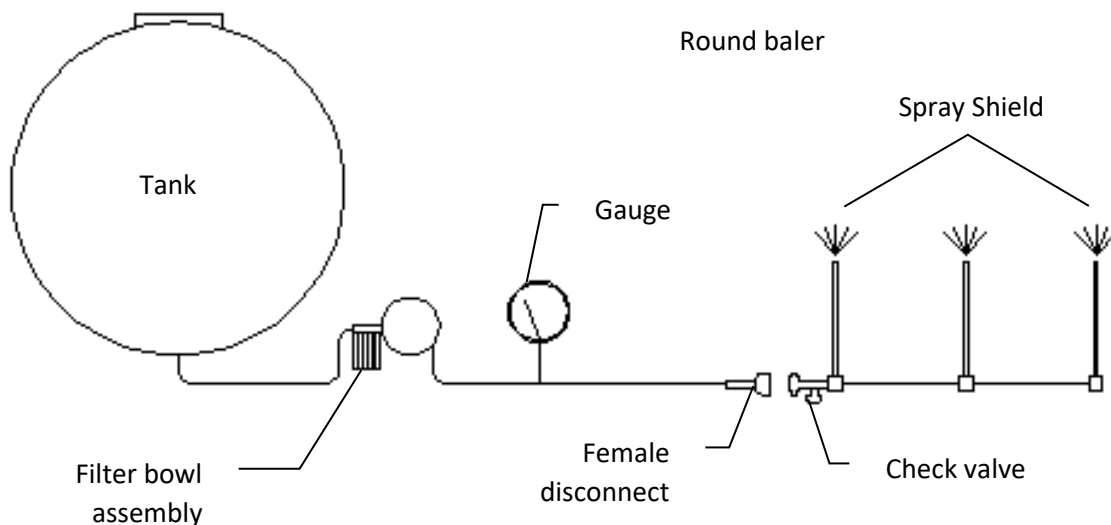
## Installation of Plumbing

### A. Intake

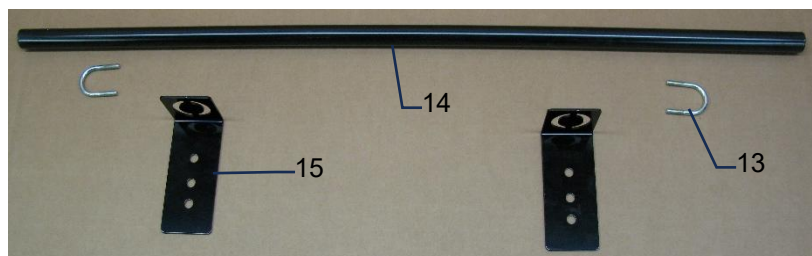
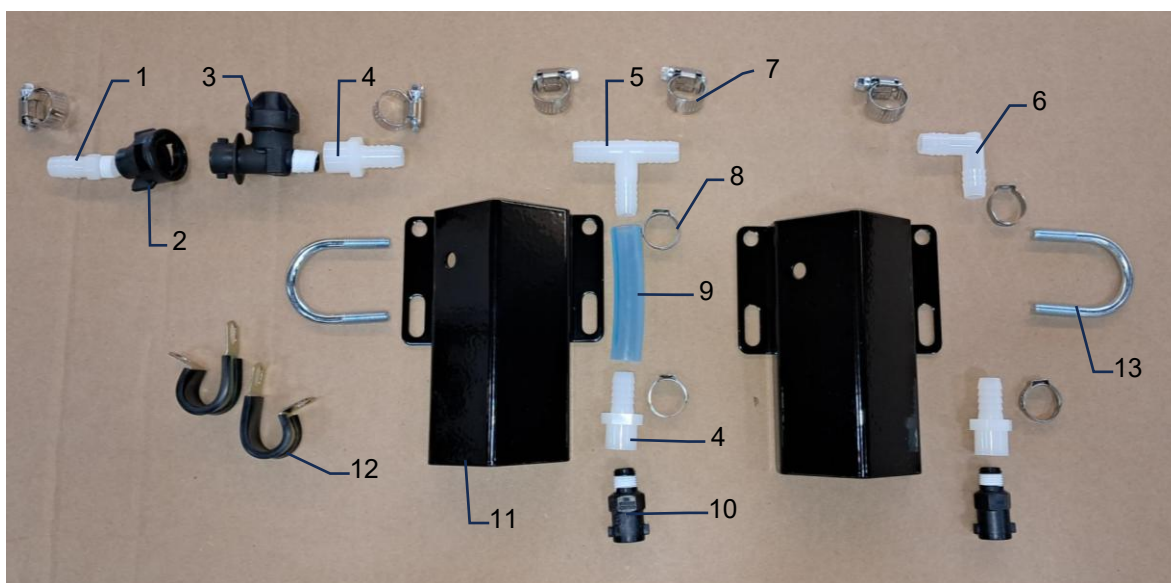
Screw the 003-EL3412 (3/4" to 1/2" elbow) into the bottom of the tank. Then route the 002-9001(1/2" hose) from bottom of the tank to the ball valve. Secure with hose clamps.

### B. Outlet

Run hose from the pump outlet to the gauge. The gauge is assembled with two straight fittings; an elbow is supplied in the parts bag to be used if necessary. From the gauge the hose will need to be run to the check valve on the spray shield. Cut the hose to length and attach the female disconnect and straight fitting. Attach these to the check valve using one washer.



## 436K & 439K Installation Kit

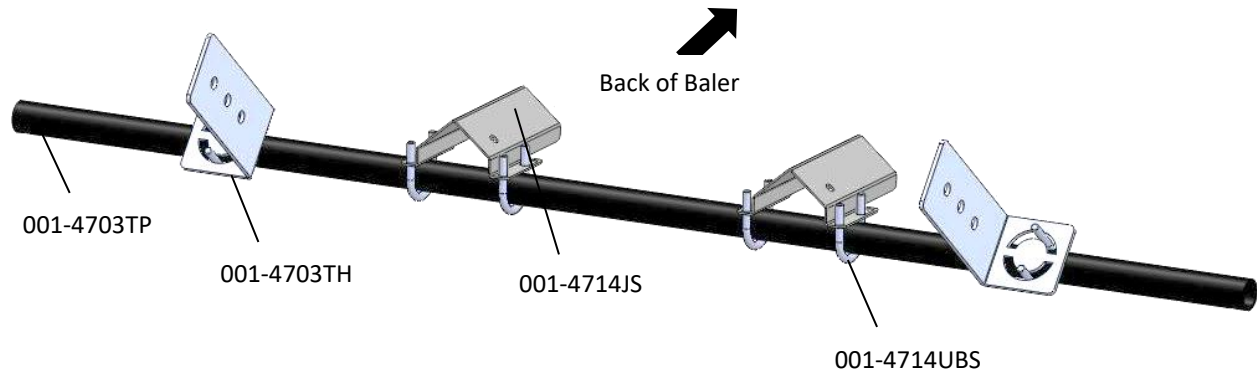


| <u>Ref</u> | <u>Description</u>   | <u>Part#</u> | <u>Qty</u> | <u>Description</u>                   | <u>Part#</u>        | <u>Qty</u> |
|------------|----------------------|--------------|------------|--------------------------------------|---------------------|------------|
| 1          | Straight HB Fitting  | 003-A1412    | 1          | Tip Kit (Complete)                   | 030-9009            | 1          |
| 2          | Female Quick Connect | 004-1207H    | 1          | <b>Tip Kit Includes:</b>             |                     |            |
| 3          | Check Valve          | 004-1207V    | 1          | Plastic Box                          | 008-9000            | 1          |
| 4          | Female HB Fitting    | 004-A412F    | 3          | Cap -Blue                            | 004-1207C           | 2          |
| 5          | All Barb Tee         | 003-T1212    | 1          | Tip -High (Blue Set)                 | 004-VR11003VS       | 2          |
| 6          | HB Elbow             | 003-EL12     | 1          | Cap -Green                           | 004-1207A           | 2          |
| 7          | Hose Clamp           | 003-9003     | 5          | Tip -Med (Green Set)                 | 004-XR11002VS       | 2          |
| 8          | Oetiker Clamp        | 003-9005     | 4          | Cap -Red                             | 004-1207B           | 2          |
| 9          | Hose -EVA 1/2"       | 002-9001     |            | Tip -Low (Red Set)                   | 004-XR11001VS       | 2          |
| 10         | Male Quick Connect   | 004-4710     | 2          | Tip Strainer                         | 004-1203-100        | 2          |
| 11         | Short Nozzle Mount   | 001-4741JS   | 2          | Washer                               | 004-1207W           | 6          |
| 12         | Pad Jiffy Clip       | 008-9010     | 2          |                                      |                     |            |
| 13         | U-Bolt               | 001-4714UBS  | 6          | Univ. Pipe Mtg. Kit (parts 13-15)    | SMK-UNIV-PIPE       |            |
| 14         | Pipe Nozzle Mount    | 001-4703TP   | 1          |                                      |                     |            |
| 15         | Pipe Mount Brackets  | 001-4703TH   | 2          | <b>Complete Assembly (all parts)</b> | <b>030-0436K-SO</b> |            |

## **Spray Shield Assembly** **436K & 439K Kits (030-0436K-SO)**

### **Assemble Spray Bar**

Attach the nozzle tube pipe (001-4703TP) to the pipe mounting brackets (001-4703TH) with the supplied U Bolts. Do not fully tighten U-bolts, to allow mounting brackets to move. Attach the nozzle mounts (001-4714JS) to the nozzle tube pipe with U-bolts and secure. The nozzle mounts should be placed approximately (3" for 4' balers) or (4.5" for 5' balers) left and right from the center point on the nozzle tube pipe: Resulting in nozzles being about 6" (12.5cm) apart for 4' (11cm) wide balers and 9" (23cm) apart for 5' (12.5cm) wide balers.



### **Attach Spray Bar Assembly**

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

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

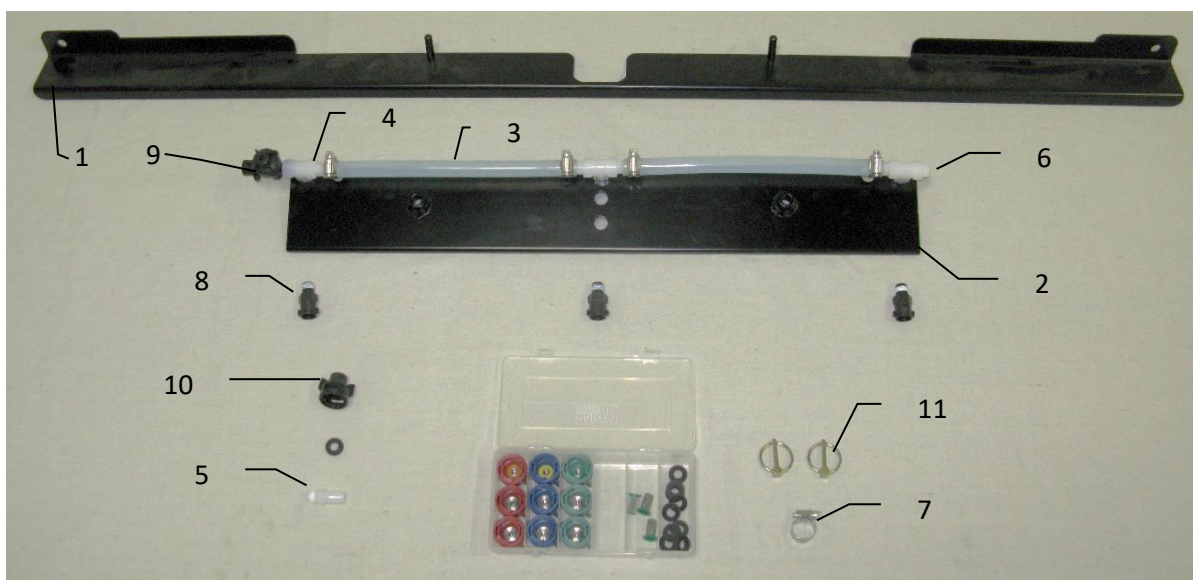


**Figure 1**



**Figure 2**

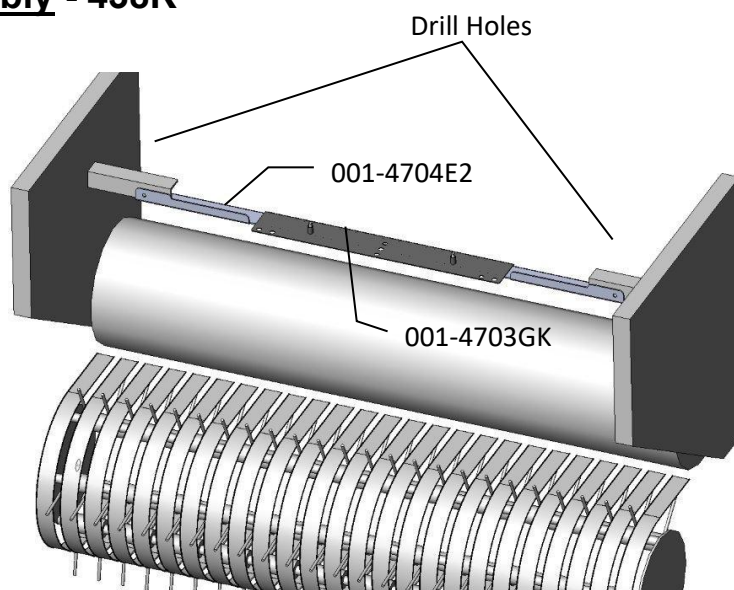
## 438K Installation Kit



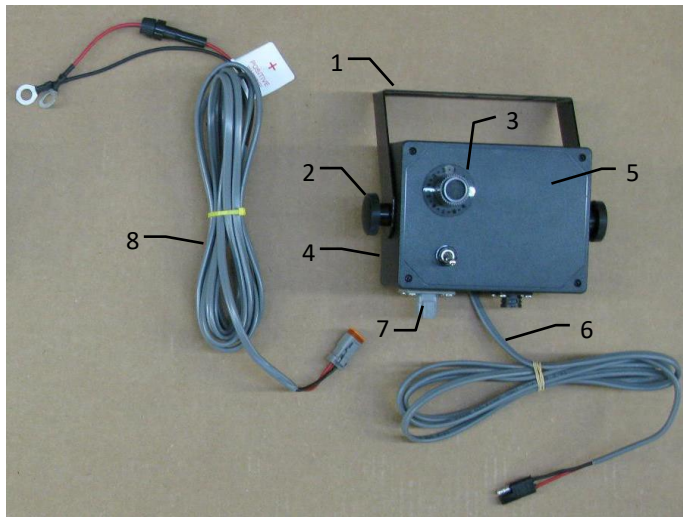
| <u>Ref</u>                                     | <u>Description</u> | <u>Part #</u> | <u>Qty</u> | <u>Description</u>      | <u>Part #</u>  | <u>Qty</u> |
|------------------------------------------------|--------------------|---------------|------------|-------------------------|----------------|------------|
| 1                                              | Shield bracket     | 001-4704E2    | 1          | Tip Kit (Complete)      | 030-9002       | 1          |
| 2                                              | Spray shield       | 001-4703GK    | 1          | Plastic Box             | 008-9000       | 1          |
| 3                                              | Hose               | 002-9001      | 3          | Red Cap                 | 004-1207B      | 3          |
| 4                                              | Tee                | 003-TT14      | 3          | Outside Tip (Red Set)   | 004-650050-SS  | 2          |
| 5                                              | Straight fitting   | 003-A1412     | 5          | Inside Tip (Red Set)    | 004-XR11001VS  | 1          |
| 6                                              | Plug               | 003-F14       | 1          | Green Cap               | 004-1207A      | 3          |
| 7                                              | Hose clamp         | 003-9003      | 5          | Outside Tip (Green Set) | 004-6501-SS    | 2          |
| 8                                              | Male quick fitting | 004-4710      | 3          | Inside Tip (Green Set)  | 004-XR110015VS | 1          |
| 9                                              | Check valve        | 004-1207V     | 1          | Blue Cap                | 004-1207C      | 3          |
| 10                                             | Female disconnect  | 004-1207H     | 1          | Outside Tip (Blue Set)  | 004-6502-SS    | 2          |
| 11                                             | Lynch pin          | 008-4576      | 2          | Inside Tip (Blue Set)   | 004-XR11002VS  | 1          |
| <b>Complete Spray Shield      030-0468K-SO</b> |                    |               |            | Tip strainer            | 004-1203-100   | 3          |
|                                                |                    |               |            | Washer                  | 004-1207W      | 9          |

### Placement of Spray Nozzle Assembly - 438K

Locate spray shield holder (001-4704E2) and spray shield (001-4703GK). Center the spray shield holder over the rotor. Clamp the bracket and drill two 7/16" holes. Secure the bracket using two 3/8 x 1 1/4 bolts, locks, flats, and nuts. Tighten all hardware. Install the shield and secure using the two lynch pins (008-4576).



## Model 457 Control Box



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

**Complete Replacement Control Box    030-0457**

### Installation of Control Box (030-0457)

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

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

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

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

## **Harvest Tec LLC. Warranty and Liability Agreement**

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

Our obligation under this warranty is limited to repairing or replacing free of charge to the original purchaser any part that in our judgment shows evidence of defective or improper workmanship, provided the part is returned to Harvest Tec, LLC. within 30 days of the failure. If it is determined that a non-Harvest Tec manufactured product has been used inside the Harvest Tec applicator system where the failure occurred, then Harvest Tec reserves the right to deny the warranty request at their discretion. Parts must be returned through the selling dealer and distributor, transportation charges prepaid.

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

There are no warranties, either expressed or implied, of merchantability or fitness for particular purpose intended or fitness for any other reason. This warranty cannot guarantee that existing conditions beyond the control of Harvest Tec, LLC. will not affect our ability to obtain materials or manufacture necessary replacement parts.

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

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