

## J400 Assembly Instructions

1) Remove the sprayer and components from the crate it was shipped in. The picture below shows the components and the sprayer that you will find to assemble. The components shown below consists of the upper duct, movable duct, stationary duct, PTO shaft, clean water tank, upper three-point hitch frame, fan shroud and cage, control valve and accessory box that will be assembled.



# Accessory Box



1) The above picture shows the parts that you will find inside the accessory box. The hardware will be used in the assembly of the sprayer. You will also notice that there are clevis pins, bushings, attachment pin and cotter pin for your convenience when attaching the sprayer to the tractor.

## Stationary Duct Assembly



Picture #1

Gasket



Picture #2

Bolts to chassis

1) When assembling the stationary duct you need to make sure the rubber gasket shown in picture #1 is in place. Next place the stationary duct onto the top of the fan housing as shown in picture #2 and fasten to the flange. Please note the stationary duct positioning in picture #2 since the two holes drilled to mount the duct to the frame are only on one side. If the duct is put on incorrectly you will not be able to secure the duct to the frame of the sprayer.

## Movable Duct Assembly



1) Place the rotating duct assembly on top of the stationary duct and attach with the bolts supplied. Note the positioning of the movable duct as the flip bail and vertical adjustment wheel are facing towards the tractor. It will help during assembly to pull the flip bail down to allow the flange to lay flat against the stationary duct.



# Upper Duct Assembly



Picture #1



Picture #2

Note: Bracket Positioning

1) Install the upper fiberglass duct on top of the movable duct as shown in picture #1. The duct will slide over the black plastic flange at the top of the movable duct. Slide the upper duct down until the holes align with the holes in the movable duct. Next insert the brass bushings into the holes making sure that the bushing inserts into the recessed portion of the hole in the movable duct. Please note that if the bushing is not aligned properly the duct will not move vertically with out binding. In picture #2 you will notice that the bushing is almost flush with the brass outer pillow block. If the bushing sticks out 1/4" or more then the bushing is not aligned properly.

2) Next insert the long pivot bolt through the bushings and tighten the nuts securely.

3) Mount the two vertical adjustment brackets to the upper duct rib as shown in picture #1. Note you must insert the pins from the vertical adjusting screw into the brackets as you install them onto the upper duct. Please notice the positioning of the brackets. If improperly installed damage to the upper duct will result.

4) Install the auxiliary ducts to the main duct and tighten clamps and wing nuts as seen below.



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## Upper Three Point Hitch Frame Assembly And Fan Shroud



1) Install the upper three point hitch frame assembly to the sprayer chassis as shown above. Note 4 bolts with the bushings are used to assemble the three point hitch frame to chassis.



1) Install the fan shroud using the sheet metal screws supplied to the fan housing. Note 4 of the sheet metal screws are longer for installing the fan cage to shroud.

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# Control Valve and Hoses



Set bolts for control valve

1) Slide the control valve support into the square tube on the upper three point hitch frame as shown above. Install the two bolts into the square tubing to secure the control valve into place. Note- adjustable for different tractor applications.

2) Next install the two blue return hoses from top of tank to the control valve as shown. Then install the blue inlet hose from pump to bottom fitting of the control valve. After securing the hose clamps install the orange hoses from nozzles to bottom of control valve fittings. Note there are two different sizes of fittings see picture below. Hint: Use liquid dish soap on hose and fittings to help install onto control valve.



3/8" auxiliary duct hose

1 for Jacto

Service Sumino 1/2" primary duct hose  
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## PTO Shaft and Clean Water Tank



- 1) Install the PTO shaft by sliding it over the drive shaft with key. Use the bolt supplied to secure the PTO shaft to the drive shaft. Position the PTO shaft into the holder on the frame as shown.
- 2) Install the clean water tank into the bracket on the side of the sprayer. This tank snaps into place beginning with the spout first coming in from the front of the sprayer then rotating the tank up and into place.



# Final Assembly and Inspection



Filter shut off

- 1) Perform final inspection of hose clamps, fittings and fasteners to make sure they are tightened properly.
- 2) Attach sprayer to tractor's three point hitch. DO NOT attach PTO shaft to tractor's PTO drive until the PTO shaft has been cut to the proper length. To determine the proper length required for the tractor being used the operator must lift the sprayer until the shortest distance between the sprayer drive shaft and the tractors PTO drive shaft is obtained. The PTO shaft should have 1 1/4" of play at this point. Cut the ends of the PTO shaft equally to achieve the free play indicated.
- 3) Add water to tank. Before engaging PTO shaft be certain that the filter shut off valve is on (in the outer position) or pump damage may occur. It is also recommended that before engaging the PTO shaft, the cap for the three way valve is removed and the valve is turned to allow water to flow for 1 second to bleed out any air.
- 4) Engage PTO shaft with tractors RPM at low speed and then raise RPM until you reach 540 RPM at the PTO.

Three way valve

