

# Arbus 500 Assembly Instructions

1) Remove the sprayer and components from the crate it was shipped in. The picture below shows the components that will need to be assembled to the sprayer. The components listed below consist of the accessory box, control valve with cables, axle, tires and wheels, trailer tongue, trailer jack, steering linkage, and PTO shaft.



# Accessory Box

1) The picture below shows the parts and accessories that come in the accessory box. The hardware and nozzles will be used in the assembly of the sprayer. The components below are the owner's manual, spanner wrench, control valve bracket to mount on tractor, nozzle cap wrench, Category II hitch bushings, nozzles and swirl cores, nozzle filters, and nozzle caps. You will also notice that hitch pins and clevis pins are supplied to attach the sprayer to the tractor.



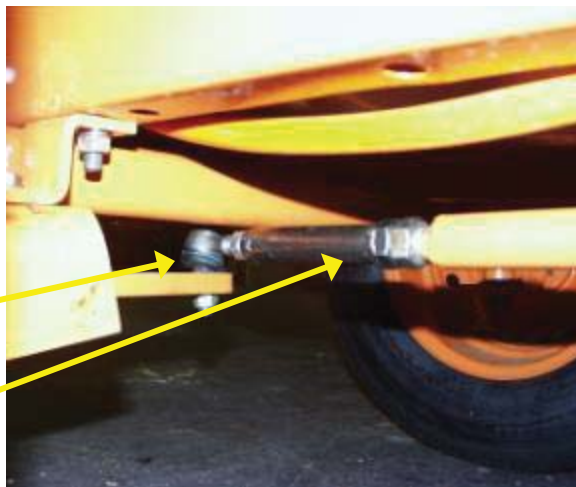
## Steering Axle Assembly

1) Raise the trailer and use jack stands under the frame to allow for the installation of the axle assembly. Slide the axle under the trailer and align it with the mounting holes on the trailer. Using a floor jack under the axle, raise the axle into place and properly secure the axle to the frame with the 4 bolts supplied. Note the position of the axle in the picture below. The steering linkage mounted on the axle points towards the rear of the sprayer. Next install the tires and wheel onto the axle and properly tighten the lug nuts.



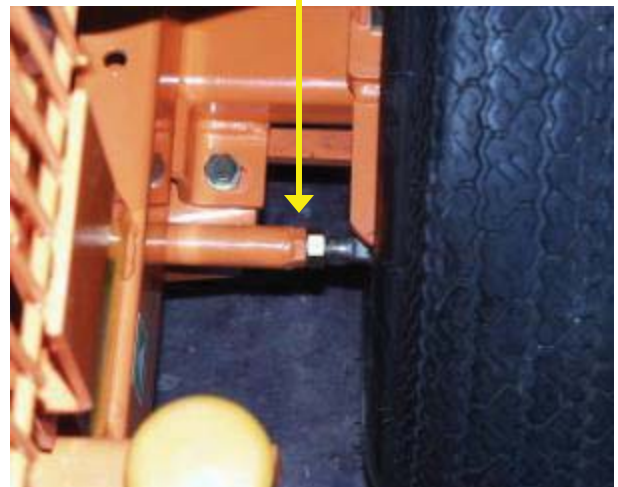
# Steering Linkage Assembly

1) Install trailer tongue with large washer and nut and tighten properly. Next thread the tie rod onto the tie rod end on the steering axle. Position the trailer tongue at 90 degrees as shown below. With the tires pointing straight ahead install the other end of the tie rod end to the trailer tongue with the pin supplied. Note: It may be required to adjust the length of the tie rod by turning the coupling end. Adjustment of the toe-end of the tires may also be required. Check the toe-end by measuring the distance between the two tires both in front and in the rear. If the measurements are different loosen the steering link lock nuts and turn the steering link rod until the distance between the front of the tires is equal to the distance of the rear of the tires.



Tie Rod End

Coupling End



Steering Link

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Arbus 500 Assembly

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## Control Valve Assembly

1) Install control valve to bracket with the bolts supplied. Connect high pressure hose from chemical pump to lower center port, the return hose to the upper center port and the high pressure hose to the nozzle branches to the outer ports as shown below.





## PTO & Jack Assembly

- 1) Remove retaining bolt from PTO shaft sprayer coupling end. Slide PTO shaft onto chemical pump crankshaft and install and tighten PTO retaining bolt. Note: to easily install retaining bolt it may be necessary to remove bolts from black collar and slide collar up the PTO shaft then reinstall collar bolts.
- 2) Install jack into mounting bracket with pin and washers. Install cotter pin to retain pivot pin.



Black Collar

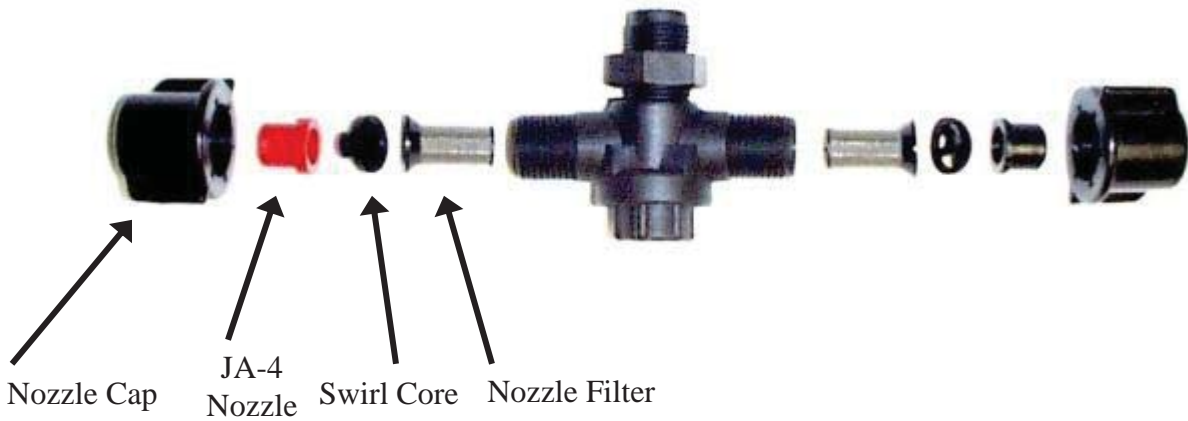
Retaining Bolt



Pivot Pin

# Nozzle Assembly

1) Install the nozzle filters, swirl core, JA nozzles and nozzle caps as shown in the picture below. Note it will be necessary to remove the lower metal air deflector to access the bottom nozzle bodies.



## Final Assembly and Setup Tips

- 1) Perform final inspection of hose clamps, fittings, and fasteners to make sure they are tightened properly. Check oil level in chemical pump.
- 2) Attach sprayer to the tractor's drawbar. 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 needs to find the shortest distance from the sprayers drive shaft to the tractor's PTO drive that may occur during maneuvering or operation. Usually the shortest distance obtained would be on a sharp turn. The PTO shaft should have 2 inches of free play at this point. Measure the PTO shaft and cut both ends equally to achieve the free play indicated above.
- 3) Make sure the fan disconnect is engaged before spraying. NEVER attempt to engage or disengage the fan disconnect when the fan is moving.
- 4) Add water to tank and bleed the air from the system by loosening the wing nut on the end of the suction filter until water flow freely (usually about 2 seconds). Tighten the wing nut and ensure the filter shut-off valve is in the flow position (pin in out position).
- 5) Engage PTO shaft with tractor's RPM at low speed and then raise RPM until you reach 540 RPM at the PTO.