

# Cannon Electric Valve Assembly



Standard AJ401 Sprayer  
Before

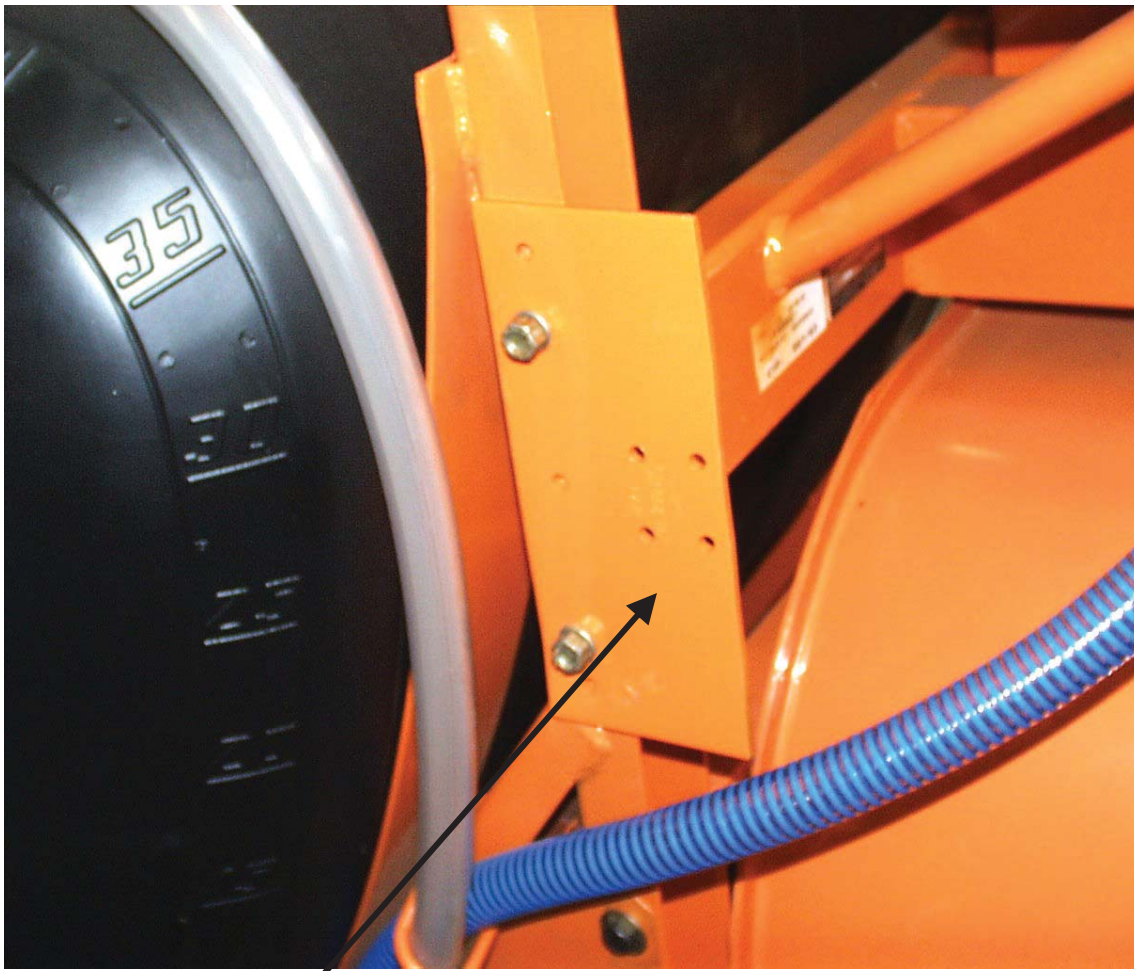


AJ401 Sprayer with electric valve installed

Electric Valve Assembly – DRAFT

## Mounting Bracket for Electric Valve

1) Fabricate and paint the mounting plate using the template included and use the existing chassis bolts to mount the bracket to the sprayer. Note: The use of galvanized plate helps to resist rusting. See picture below for recommended position of the bracket.



Local Fabrication of Bracket Required

# Mounting the Electric Valve

- 1) Install 90 degree elbow to bottom port of electric control valve before installing onto bracket.
- 2) Using four #14 X 3/4" sheet metal screws with shouldered head, attach the electric valve to the mounting bracket. See pictures below for reference.
- 3) Install the other 90 degree elbow to inlet port (middle port) of the electric valve. Remove the existing inlet hose from the sprayer's control valve and measure the hose coming out of the pump and cut to length to fit the inlet port of the electric valve. Slide hose clamp onto the hose and install the hose onto inlet port of control valve (middle port). Heating the hose ends in hot water for a few minutes and the use of liquid dish soap will make it easier to install the hose onto the 90 degree elbow.



#14 X 3/4"

# Installation of By-Pass Fitting

1) Using a 1 1/4" hole saw, drill one new hole next to existing by-pass hose fitting on top of tank. Note: there is a dimple found on the tank next to existing by-pass fitting for placement of new hole (reference Picture 1). Picture 2 below shows both fitting not installed. The removal of the existing by-pass fittings is not necessary.

2) Install one elbow (supplied in kit) to the metal nipple. Remove tank lid and screen and insert elbow with nipple from inside the tank. Install sealing washer onto the nipple then install the other elbow to the nipple. Next install hose barb to the elbow on the outside of the tank.

Drill here



Picture 1



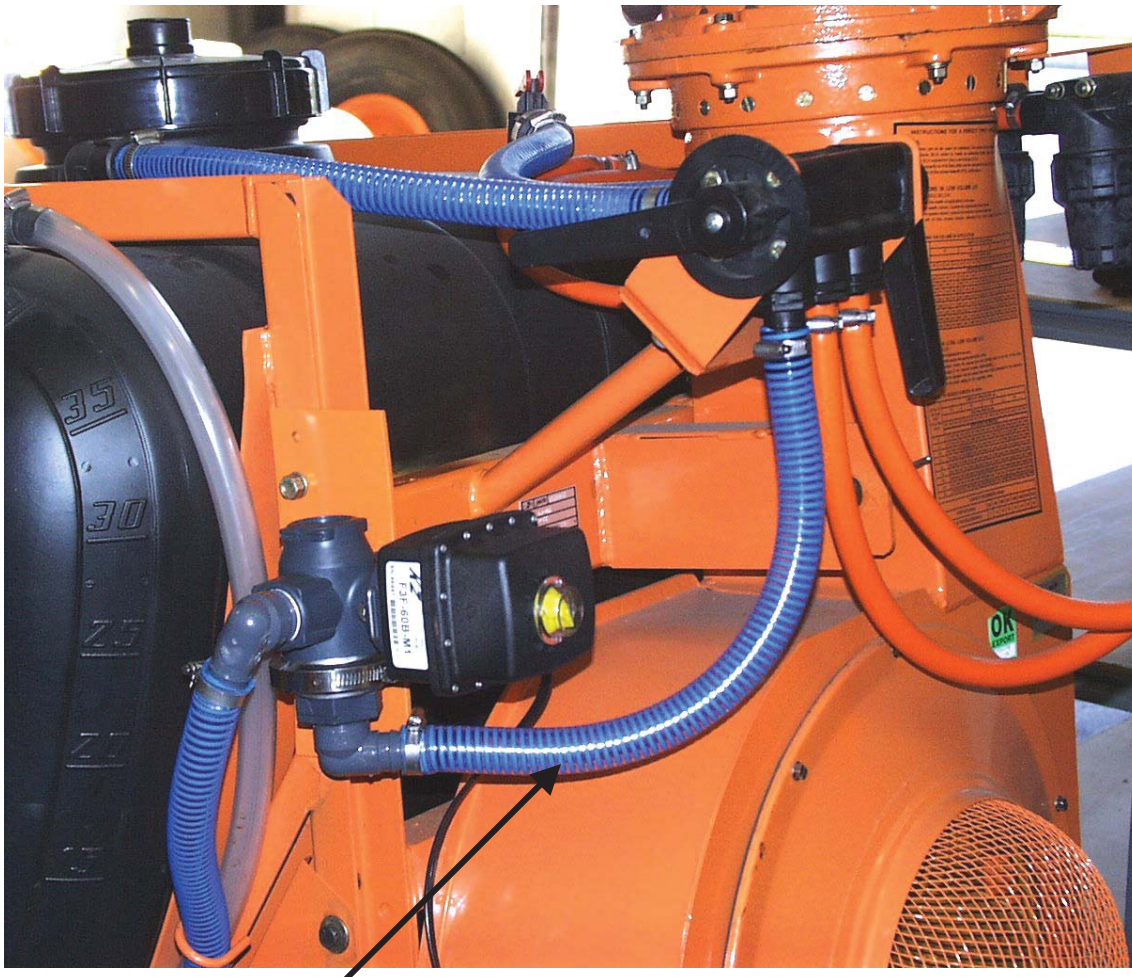
Picture 2

Elbow, nipple,  
gasket, hose barb  
components  
assembled for  
reference



## Installation of Hose to Control Valve

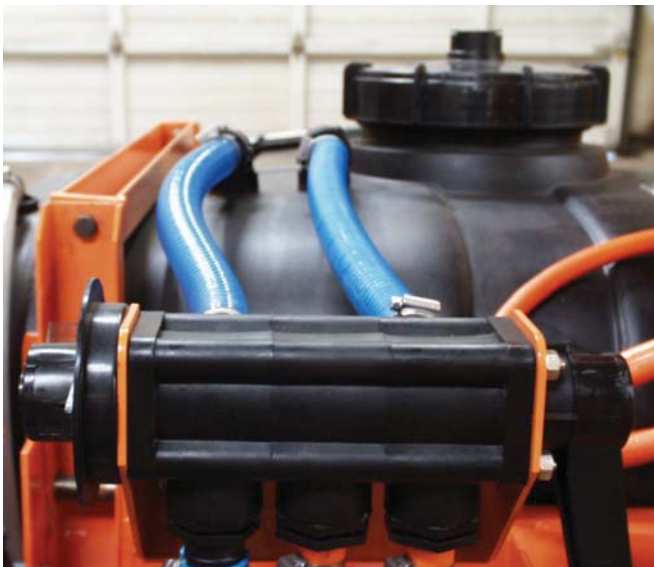
- 1) Measure the hose length needed to connect the outlet port from the electric valve to the inlet port of the sprayer's control valve and cut the hose supplied in the kit to length.
- 2) Using hose clamps install the hose from the outlet port of the electric control valve outlet port (bottom port) to the inlet port on the sprayer's control valve. Heating the hose ends in hot water for a few minutes and the use of liquid dish soap will make it easier to install the hose.



Measure distance and cut hose to length required

## Installation of By-Pass Hose

- 1) Disconnect the fitting from the by-pass hose going from sprayer's control valve to the chemical container rinse nozzle valve at the fitting. Remove threaded 1 ¼ inch fitting from this hose. Measure the distance needed to connect this hose to the new by-pass fitting on the tank and cut to length. Install the 1 inch threaded fitting and hose clamp, supplied in kit, to this hose, and connect to new by-pass fitting.
- 2) Install the straight hose barb fitting to the bypass port (upper port) of the electric valve. Measure the length needed to connect the hose from the by-pass of the electric valve to the chemical container rinse valve and cut to length. On one end of the hose install the 1 ¼ inch fitting and hose clamp, removed from step 1 above. Connect this fitting to the chemical container rinse valve and the other end to the hose barb on the by-pass port of the electric valve.



New Routing of by-pass hoses



Electric valve installed with all hoses attached

## Final Assembly

- 1) Connect red wire from electric valve controller to positive 12 volt battery source and the black wire to the negative side of the battery.
- 2) Mount the controller in the cab of the tractor and connect 4 pronged plug-in to electric valve.



Electric valve controller