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Purpose Of This Up-Grade

The main purpose of this system is to flush out the manifolds as well as the nozzles on your **Super-Shiner™** from small particles or coagulated chemical that may be sitting in the manifolds and may be clogging the nozzles.

This flushing procedure is only used as needed. Your applicators may require flushing once a week or once a month, depending on what Chemical you are using and how often the applicators are operating. After installing the up-grade kit go through the step by step procedure and make sure that all of your nozzles are spraying. From this point on, check your **Super-Shiner™** once a week and develop a flushing procedure that works best for your application or usage.

Equipment Bill Of Material

QTY	PART #	DESCRIPTION
4	8VALVBALF2M0003	BALL VALVE 3/8FPTX3/8MPT
4	8FTNGAIRELB0007	FITTING AIR ELBOW 1/2MPTX1/2TB
2	8FTNGAIRELB0008	FITTING AIR ELBOW 3/8MPTX1/2TB
2	8FTNGAIRSRT0009	FITTING AIR STRAIGHT 3/8MPTX1/2TB
2	8FTNGAIRELB0006	FITTING AIR ELBOW 3/8TB STEM
2	8FASTBLTSKT0001	SOCKET HEAD CAP SCREW 1/4-20X1-3/4 SS18-8
7'	8TUBEAIRCLR0003	1/2" AIR LINE TUBING CLEAR
2	8VALVBALF2M0005	BALL VALVE 1/4"MPT X 3/8"TB 90
2	7SHNRMFDALM0003	MANIFOLD 1-1/2" X 2" PVC GRAY
2	8FTNGPLGHEX0001	FITTING 1/4MPT HEX SOCKET PLUG
1	8TUBEAIRCLR0002	3/8" AIR LINE TUBING NATURAL 100'
2	8FTNGAIRWYE0001	FITTING AIR Y 3/8" X 3/8" X 3/8"



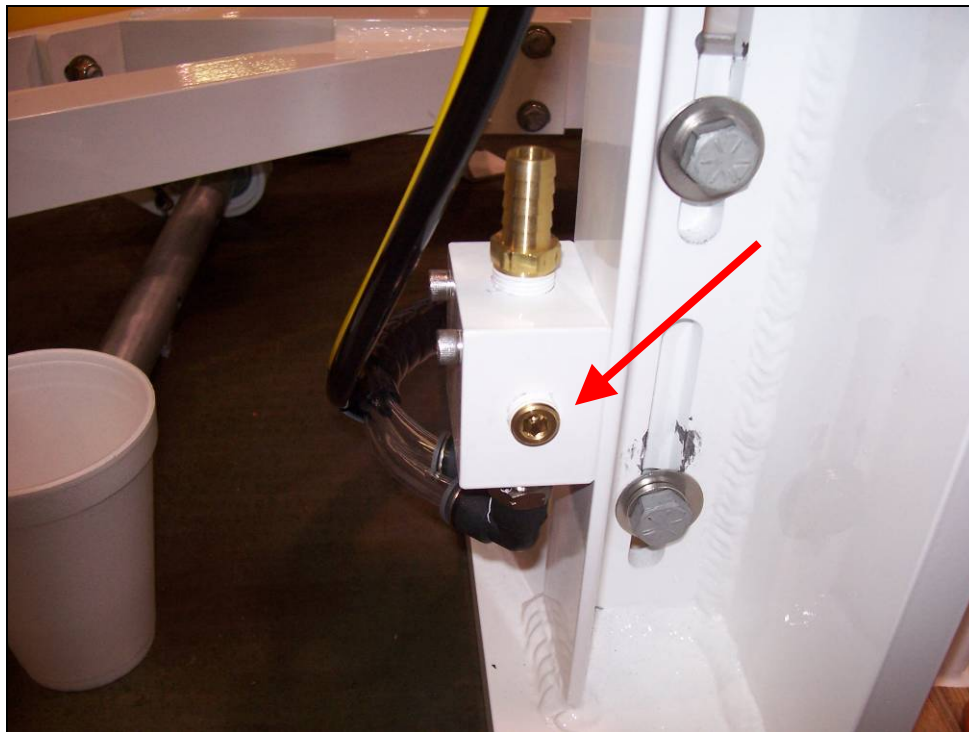
Picture #1: Fittings and Manifolds



Picture #2: Tubing and "Y" Fittings

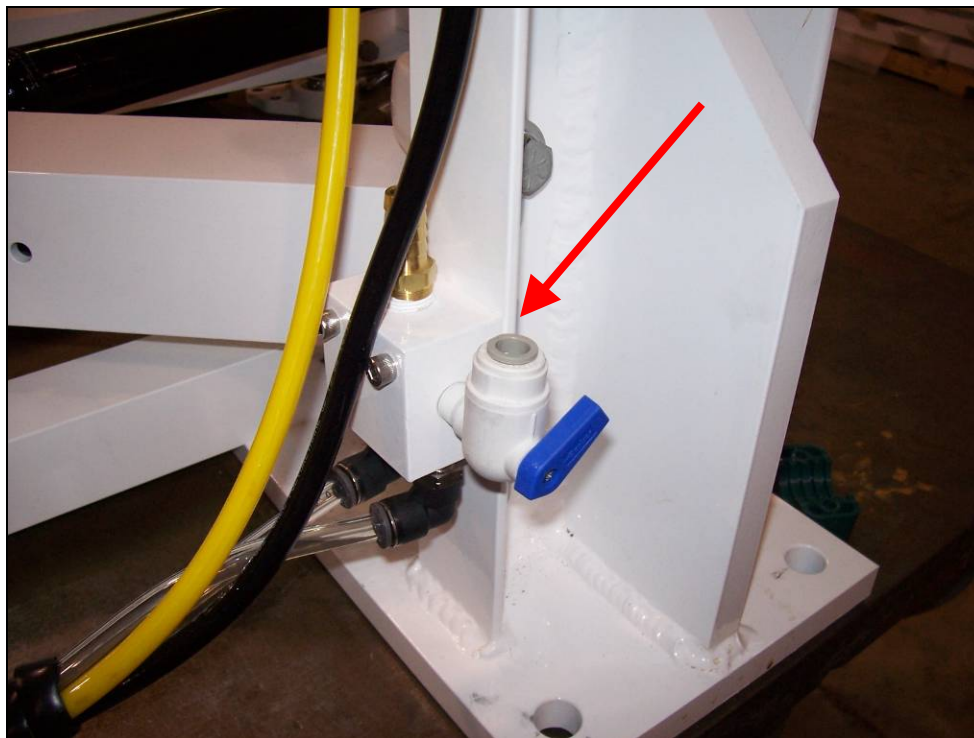
Installation Procedure

- First** remove the 1/4" NPT plug as shown in the Picture below.

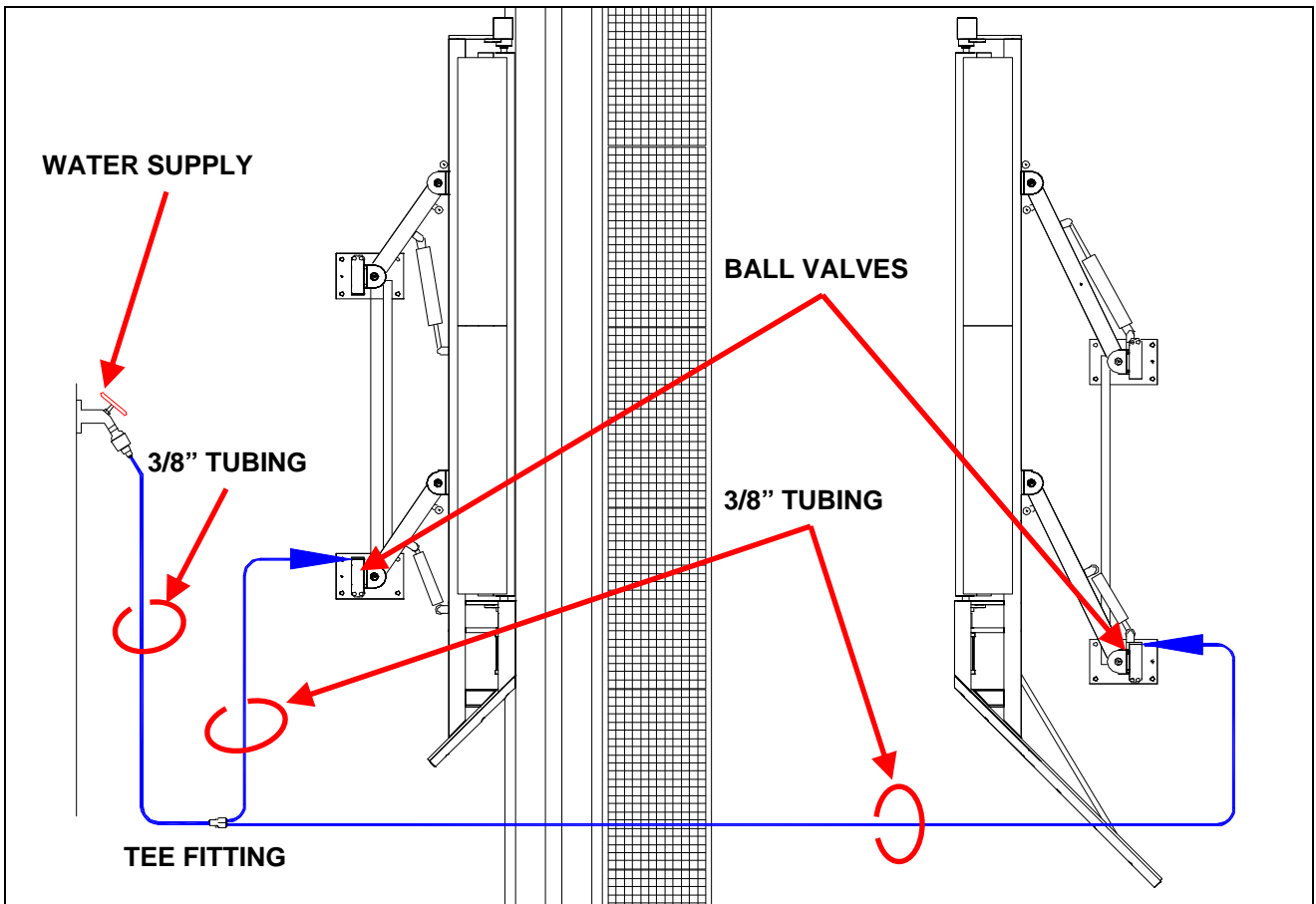


Picture #2: Fittings and Manifolds

- Install** one 1/4" MPT X 3/8" TB ball valve on both sides and connect them to a water supply using the 100ft X 3/8" air line and 3/8" TEE FITTING supplied (See Pictures #3, 4).

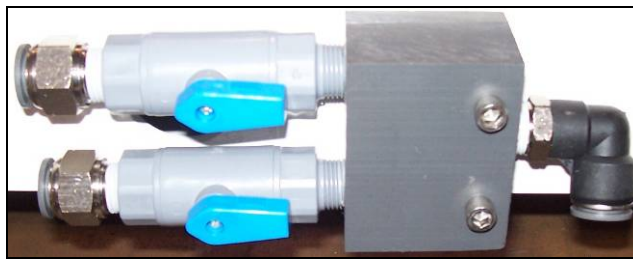


Picture #3: Manifold Ball Valve



Picture #4: Water Supply

- **Mount** the flush out water manifold (See Picture #5, 6 and 7 below) with two 1/4"-20 x 1-3/4"SHCS to the main beam using the 2 threaded holes on the main beam, located between the 2 pivot Bearings on the back side.



Picture #5 Water Manifold



Picture #6 Mounting Holes



Picture #7 Water Manifold Mounted

- Remove** the top covers from each applicator and remove both 1/2" NPT plugs from each fluid manifold (see Picture #8). Replace the plugs with the two **ELBOW** air fittings 1/2" TUBING X 1/2" NPT (see picture 9).

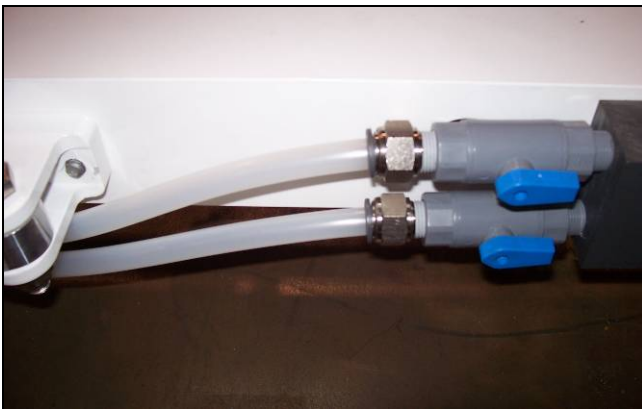


Picture #8 Manifold Plugs



Picture #9 Manifold Fittings

- Install** two 84" Lengths of 1/2" CLEAR TUBING (supplied with the kit) from each of the ball valves on the flush out manifold to each 1/2" fittings mounted on each fluid manifold (see Pictures #10 and 11).

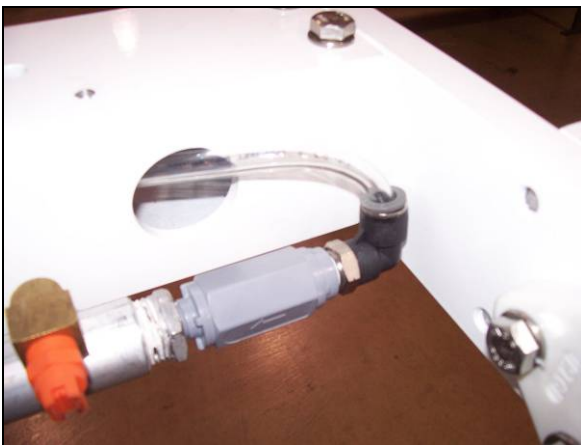


Picture #10 Flush Manifold



Picture #11 Elbow Fittings

- From** the other end of the fluid manifold, disconnect the existing 3/8" chemical line (see Picture #12) and install a new **STEM ELBOW** in the existing fitting (see Picture #13). Reinstall the 3/8" line.



Picture #12 Existing 3/8" Line

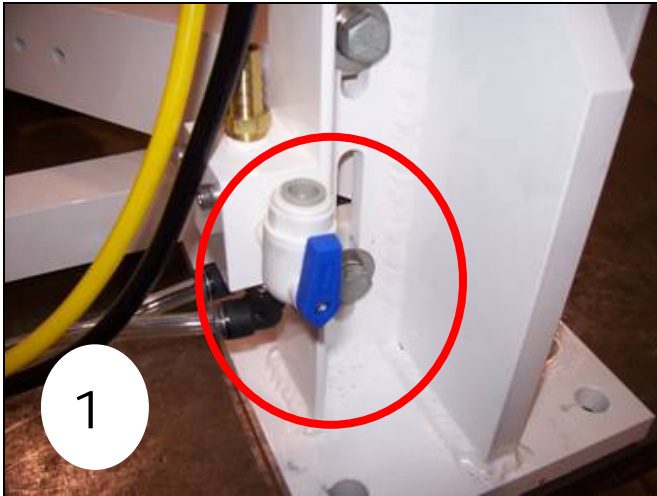


Picture #13 New Fitting

Periodic Flushing Procedure:

Step 1: Starting with the **DRIVER'S SIDE APPLICATOR**, open the incoming water supply ball valve.

Step 2: Open the bottom ball valve on the flush out manifold until you see clear water coming out of the fitting on the right side of the manifold. Flush for 30 seconds.



Step 3: Close the bottom ball valve.

Step 4: Open the top ball valve and flush for 30 seconds. Finally, close the top ball valve.

Step 5: Close the incoming water supply ball valve (see step #1). Repeat step #1 thru 5 for the other side.

Step 6: At this point, all fluid manifolds are full of water...

You can: Leave the water in the manifolds and let the chemical recharge the manifolds during normal operation.

Or you can: Manually over ride both chemical pumps until fluid is coming out of all the nozzles. Put the covers back on both Tire-Shiners™

Warranty and Return Procedure:

Motor City Wash Works warrants this product to be free of defect in material and/or workmanship for a period of **one year** from the date of purchase. During the warranty period MCWW will at its discretion, at no charge to the customer, repair or replace this product if found defective, with a new or refurbished unit, not to include costs of removal or installation. Any product returned to MCWW for warranty has to have a **Return Material Authorization Number**. All shipping costs to MCWW are assumed by the customer. This is only a summary of **MCWW's Limited Warranty**. Please, communicate with MCWW for our complete warranty.

Prior to returning any product to MCWW, the customer must call in for a **Return Material Authorization Number** and a copy of our **Return Material Authorization** Form must be completed. The **RMA** number must be written clearly on the outside of the shipping package and a copy of the form must be included in the package.