



## **INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS STYLE 3460 TURRET**

The Akron Style 3460 Turret is designed to provide efficient trouble free operation for many years. The following operating and maintenance instructions are provided to assist in obtaining the best possible performance from this unit.

### **INSTALLATION/CALIBRATION INSTRUCTIONS**

The turret includes a 12 $\times$  12 $\times$  mounting plate to be mounted with eight 3/8 $\times$  bolts (not supplied). The structure to which the mounting plate is attached should be designed to support a reaction force of at least 310 foot pounds at the base of the turret. Also included is a mounting assembly for the pattern control cable, which is mounted with the two 1/4 $\times$  bolts supplied with the unit. This assembly should ideally be mounted behind the unit approximately 12 inches back from the centerline of the unit and 6 inches to the side.

The unit is calibrated at the factory to flow 500 GPM at 175 psi inlet pressure. Once installed, the flow should be checked due to varying pump capabilities. If the flow needs to be changed, spacers have been provided to adjust it. First remove the baffle head and spacer by securing the extension blade with a 3/8 $\times$  open end wrench and removing the socket head cap screw in the center of the baffle head. The shaft has wrench flats that can be seen when the nozzle is between the straight stream and fog settings.

To decrease the flow replace the original spacer with one of the smaller spacers. To increase the flow add one or both of the spacers to the original spacer. Reattach the baffle head and spacers with the socket head cap screw per the instructions on the spacer tag.

**NOTE:** After changing the flow by adding or deleting spacers, the nozzle may become unbalanced, causing the nozzle to change patterns on its own. This can be corrected by installing or removing the 8–32 set screws in the throat. These set screws can be seen in the outlet end of the nozzle around the baffle. If the nozzle moves from straight stream to wide angle fog, remove one screw at a time until the pattern holds in straight stream. If the nozzle moves from wide angle fog to straight stream, add one screw at a time until the pattern holds in wide angle fog. The set screws should be installed in an approximately symmetrical pattern (opposite sides of the throat).

The flow control switch located on the direction operating handle should be connected by the installer to a solenoid valve used to activate the flow control valve.

### **OPERATING INSTRUCTIONS**

The direction operating handle is used for both horizontal and vertical positioning. Before operating, the security pin closest to the handle grip should be removed. When not in operation, this security pin should be in place to prevent movement. For maximum reach, position the operating handle so that the bottom edge of the handle yoke lines up with the mark on drive socket.

The switch on the direction operating handle is a push on/push off latching switch used to activate the flow control valve. The amber light indicates valve is open. (This light is used on all turrets manufactured after 6/95.)

The pattern lever located at the end of the control cable is for changing from straight stream to wide fog by moving it up and down respectively.

To lift the unit out of its base, remove four of the five security pins by depressing the button in the head of the pins and pulling them out. The security pin closest to the operating handle grip need not be removed. In addition, the cable roof nut must be unthreaded. The security pins will hang in place on chains until the turret is remounted. At that time, the pins should be reattached.

## MAINTENANCE INSTRUCTIONS

Periodically check the spinning turbine teeth to make sure they spin freely. If they do not spin freely, they should be removed and cleaned by detaching the three screws securing the turbine retaining ring and wiping them clean of any foreign debris.

Under normal conditions, the unit should not need any lubrication. However, if the operation should become stiff call the factory or return the unit for technical service.



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