

# OPERATION AND MAINTENANCE INSTRUCTIONS

# MUELLER® H-603 and H-604 POWER OPERATORS



**CAUTION** - Should the equipment that the power operator is connected to suddenly stop turning or stall, the torque transmitted through the handle of the power operator may be sufficient to cause the person holding it to be thrown off balance. Before starting the power operator, the person operating should assume a stable, well braced and balanced position on solid ground so this torque can be controlled, DO NOT USE WIRE, TAPE OR ANY OTHER MEANS TO HOLD THE POWER OPERATOR SWITCH OR THROTTLE LEVER IN THE "ON" OR "RUN" POSITION. DOING SO MAY PREVENT THE POWER OPERATOR FROM SHUTTING OFF IN THE EVENT THE PERSON OPERATING LETS GO OF THE HANDLE.



**WARNING** - Do not use the power operator in an explosive atmosphere or around flammable materials. Do not remove or deface the warning tag, form 8933, attached to the unit.

**Electrical connection:** Only operate the H-603 unit from a power source rated at 120VAC or DC, 10 AMPS with a minimum capacity of 1500 watts to accommodate peak load requirements.

*When connected to an AC source-* To help prevent electrical shock or possible electrocution, always use the supplied Ground Fault Current Interrupter (GFCI) in series with this unit and a 3-prong grounding type receptacle, which is installed in accordance with the National Electrical Code. The GFCI is for use ONLY with 120V, 60Hz Alternating Current (AC). DO NOT use the GFCI on Direct Current (DC). See instructions supplied with the GFCI for additional information.

Extension cords must have a continuous rated capacity of 10 AMPS at 120 volts and include a properly connected grounding circuit. DO NOT connect the ground wire (normally green) to the neutral wire (normally white). DO NOT remove or in any way disable the grounding lug on the plug of the unit of GFCI,

Replacement GFCI units are available by contacting Mueller Customer Service at 800-423-1323.

**Before each use of the unit,** check to be sure the electric motor is securely attached to the handle and that all mounting screws are in place and tight. Also, inspect the gear case for leakage. The gear

## H-603 Electric Operator



**CAUTION** - Do not suspend the power operator by the power cord, or use the cord to lift or lower the unit. Doing so may cause the cord to separate or compromise the electrical connection inside the unit, making the unit inoperable or posing an electrical shock hazard. Use of the power operator with a damaged electrical cord or compromised electrical connection could result in serious injury or death.

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case (3/4 pint capacity) is filled with the proper lubricant at the factory and requires no periodic service. However, if leakage has occurred or the gear case requires repair, contact Mueller Co. Customer Service at 1-800-423-1323 for return instructions.

**After approximately every forty tapping operations,** check the brushes in the electric motor by removing the plastic screws, located one on each side of the electric motor. When removing the brushes, observe the relationship of the curvature at the end of each brush and reinstall the brushes with the curvature in the same position. Replacement brushes are available from Mueller Co. Customer Service at 1-800-423-1323.

**NOTE:** If the electric motor does not turn on when the switch trigger is pulled, small debris particles may be in the brushes/ armature area of the motor. To correct this situation, unplug the unit from the power source, remove and wipe the electric brushes clean. Then spray the brush contact area with electric contact cleaner, re-install the brushes and continue operations.

### H-604 Air Power Operator

**Install an air line lubricator as close to the inlet of the unit as practical.** The proper use of an air line lubricator is required to maintain operator warranty. Adjust the lubricator to produce a slight oil mist in the exhaust air. Use a good quality oil intended for use with an in-line lubricator.

**Maintain 55 cubic feet of free air at 90 psig, measured at the unit.** Use of a pressure gauge mounted as near the unit as possible is

recommended. Blow moisture and debris from the air hose before connecting it to the H-604 operator. **Before each use of the unit,** inspect the gear case for leakage. The gear case (3/4 pint capacity) is filled with the proper lubricant at the factory and requires no periodic service. However, if leakage has occurred or the gear case requires repair, contact Mueller Co. Customer Service at 1-800-423-1323 for return instructions.

**After approximately every forty hours of operation,** lubricate the air motor using a quality lube grease by applying two or three pumps of the grease gun to each of the grease fittings.

In the event of noticeable power loss (see PC.TPA1512), remove the Throttle Handle Assembly (Item 1) by unscrewing it counter-clockwise from Throttle Connector (Item 13). Remove the Strainer Retaining Spring (Item 15) and Air Strainer (Item 14), and thoroughly clean both parts. If necessary, clean and lubricate the Throttle Valve Assembly (Items 3 thru 12). Carefully reassemble the Throttle Valve, Strainer and Strainer Spring to the Throttle Handle Assembly. Reinstall the Throttle Handle Assembly to the Throttle Connector,

DO NOT operate the air motor without the Strainer and Strainer Spring in place.



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