Model:

- SW-8415
- SW-8420
- SW-8425

SW Series Sweeper®

Gaylord Sweeper Evacuation System

INSTRUCTION AND OPERATION MANUAL

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SW Series Sweeper
Gaylord Sweeper Evacuation System
Models: SW-8415, SW-8420, SW-8425

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To every person concerned with use and maintenance of the Maguire SW Series Sweeper it is recommended to read thoroughly these operating instructions. Maguire Products Inc. accepts no responsibility or liability for damage or malfunction of the equipment arising from non-observance of these operating instructions.

To avoid errors and to ensure trouble-free operation, it is essential that these operating instructions are read and understood by all personnel who are to use the equipment.

Should you have problems or difficulties with the equipment, please contact Maguire Products Inc. or your local Maguire distributor.

These operating instructions only apply to the equipment described within this manual.

Manufacturer’s Contact Information

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Maguire SW Series Sweeper Basic Operation

The SWEEPER gets its name from the fact that it continuously "sweeps" the top level of the contents of the Gaylord to the outer edges. The material is vacuumed up the rotating vertical pick up tube assembly, which in turn has a flexible hose and wand assembly that rotates. As the pick up tube assembly rotates the material is drawn up thru the vertical portion, and into the manufacturing process.

The motor that rotates the pick up tube is only activated when vacuum is sensed from the users conveying system. As the unit unloads the material from the gaylord, the counterbalance system allows the motor / control assembly to lower and follow the level of the material. When the sweeper reaches to the bottom of the gaylord, there will be a small amount of material remaining, which can be easily removed with the Gaylord liner and returned to inventory.

The whole system is very portable and can be easily transported from one location to another.

Available in six models sizes.

- SW-4815 - 48-inch clearance, 1.5-inch hose diameter.
- SW-4820 - 48-inch clearance, 2.0-inch hose diameter.
- SW-4825 - 48-inch clearance, 2.5-inch hose diameter.
- SW-8415 - 84-inch clearance, 1.5-inch hose diameter.
- SW-8420 - 84-inch clearance, 2.0-inch hose diameter.
- SW-8425 - 84-inch clearance, 2.5-inch hose diameter.

Power Requirements: 120 VAC or 230 VAC, model dependent.
SWEeper Set-Up

Assembly of the Sweeper consists of the following separate steps:

1. Assemble the stand
2. Bolt the vertical assembly to the frame.
3. Attach the control panel to the frame
4. Attach the pick-up tube assembly

First Step - Assemble the Stand

Refer to drawings for identification and location of parts & hardware. The rear stop bar can be placed in an upper or lower position to suit the dimensions of the material Gaylord.
For models using the two-piece vertical assembly, remove the shipping material and quick ties. Remove the shipping bolt located at the top of the vertical assembly. (See image to the right).

Raise the upper half of the vertical assembly and using the supplied hardware, connect the marked holes A to A, B to B. Do not rotate or twist the counter weight cables when raising the upper assembly.
INSTALLATION OF ANGLE CLIP & J-TUBE GUIDE

TALL SWEEPER MODEL SW-8400 SERIES

POLYPRO GUIDE BAR
P/N #1695
(2) REQUIRED
FASTEN ON UNDERSIDE
OF TOP FRAME

3” ANGLE CLIP-STEEL
FASTEN WITH ½-13
COUNTERSUNK SCREW

TOP VIEW OF FRAME WITHOUT SWEEPER ASSY IN PLACE
SECOND STEP – INSTALL COUNTERWEIGHT ASSEMBLY

Before installing the Vertical Assembly onto the frame, the counterweight assembly must be installed into the counterweight guard and attached to the pulley system. The counterweight assembly is pre-weighted with approximately the correct amount of weight.

1. With the vertical assembly lying on the floor, slide the counterweight assembly into the counterweight guard. Orient the counterweight assembly so that the eyebolt is inserted first.

2. Slide the counterweight assembly all the way up to the pulley (top of vertical assembly).

3. Attach the cable loop to the counterweight’s eyebolt.

SECOND STEP - BOLT THE VERTICAL ASSEMBLY TO STAND

1. Install the Vertical Assembly on top of the frame using the four ½”x1.5” bolts. Refer to enclosed drawing for identification and location of parts & hardware.

   Orient the front or sloped side of the sweeper assembly cover so that it faces the side of the sweeper where you want to place the control panel and lifting chain.

2. Install the counterweight safety stop bolt below the counterweight guard.
THIRD STEP – ATTACH THE CONTROL PANEL TO FRAME

1. The control panel is pre-wired to the Vertical Assembly. After the Vertical Assembly is secured to the frame, attach the control panel to the inside of the frame using the pre-drilled frame holes and the included four 3/8x1.5 inch buttonhead screws. Note: The control panel should be installed on the same side as the sweeper assembly cover located above.

2. Secure the power box cable to the frame using the included p-clips. There are four pre-drilled and tapped holes in the frame leading from the vertical assembly to the control panel. Attach the cable to the frame using these four holes and four p-clips.

3. Attach the lifting chain and o-ring bolt to the control panel.

FOURTH STEP – ATTACH THE PICK-UP TUBE ASSEMBLY

1. First, remove the aluminum end guard by removing the two machine screws (see photo). Allow the clear Lexan® chain guard to hang down. It is not necessary to remove the Lexan® chain guard.

2. Remove the four (4) locknuts and washers that are attached to the sprocket hub assembly.

3. Raise the motor control assembly to allow for clearance to insert the pick up tube assembly into the pulley hub assembly. Slowly, push upward until the flange is seated firmly against the sprocket hub assembly.

4. Reinstall and tighten the four ¼-20 locknuts and washers.

5. Reinstall the aluminum end guard. Do not over tighten screws. Note: Be sure there is clearance between Gaylord frame top member.
Drive Chain Adjustment

If the chain needs adjustment, remove the clear Lexan® portion of the chain guard. Loosen the (4) four machine screws. Apply pressure to the rear of the motor (This will apply tension to the chain and sprocket). Do not apply too much force to the chain tension. Then tighten the (4) screws at the bottom of the motor / bracket assembly. Re-install the clear Lexan® belt guard.

Counter balance weights

The unit has a counterbalance system that is set at the factory. We have included additional weights, with your unit. The additional weights are fastened to the side of the frame on the control panel (next to power box). Each weight weighs approximately ½ pound. If additional weight is needed to offset the density of the material that you are using we have included these weight discs to use if necessary.

Controls

The main power switch is remotely located on the side control panel at eye level. The Jog button is located on both the side control panel and at the base of the vertical frame member. When the power is turned “ON” the green indicator light will glow indicating power is on. The yellow indicator light directly below the green indicator light will indicate when the vacuum is present. The JOG button rotates the sweeper mechanism into a convenient position if required. When the JOG button is depressed this yellow indicator light will glow.

Fuse Location

The 2 amp control circuit fuse is located within the Main Power switch box.

Vacuum Switch

The vacuum switch is also located under the aluminum motor cover. This switch activates the motor control circuit as soon as it “sees” vacuum in the material line. It is factory preset.
NOTES—
—USE AS REFERENCE.
—WIRE COLORS MAY CHANGE AS REQUIRED.
WARRANTY - Exclusive 5-Year

MAGUIRE PRODUCTS offers one of the MOST COMPREHENSIVE WARRANTIES in the plastics equipment industry. We warrant each SW Series Sweeper manufactured by us to be free from defects in material and workmanship under normal use and service; our obligation under this warranty being limited to making good at our factory any SW Series Sweeper which shall within FIVE (5) YEARS after delivery to the original purchaser be returned intact to us, transportation charges PREPAID, and which our examination shall disclose to our satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on our part, and MAGUIRE PRODUCTS neither assumes nor authorizes any other persons to assume for it any other liability in connection with the sale of its products.

This warranty shall not apply to any SW Series Sweeper which shall have been repaired or altered outside MAGUIRE PRODUCTS factory, unless such repair or alteration was, in our judgment, not responsible for the failure; nor which has been subject to misuse, negligence or accident, incorrect wiring by others, or installation or use not in accord with instructions furnished by Maguire Products.

Our liability under this warranty will extend only to Feeders that are returned to our factory in Aston, Pennsylvania PREPAID.

It should be noted, however, that we strive to satisfy our customers in whatever manner is deemed most expedient to overcome any problems they may have in connection with our equipment.
Technical Support and Contact Information

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