

S-4 Washing Guide

We've created this short Washing Guide to help you keep your Logical Machines Weigh Filler in good working order. It's important to keep your machine clean so that maximum speed and accuracy can be maintained.

Please Note: Due to slight variations within the Logical Machines model line, the cleaning process may differ slightly.

1. Remove the Supply Hopper by lifting it off the rubber mounts on the chassis (fig. 1).
 - If the nuts were not taken off during initial set up, they may need to be removed. There are (4) 1/4-20 jam nuts that hold the Supply Hopper on during shipping. Use a 7/16" wrench to remove these if necessary.
 - In figure 1, the supply hopper gate has already been removed.

2. Removing the Supply Hopper will expose the Feed Pan (fig. 2).



Assure that the machine is unplugged from air and electrical sources before washing and that special care is taken with the electrical components during the cleaning process.

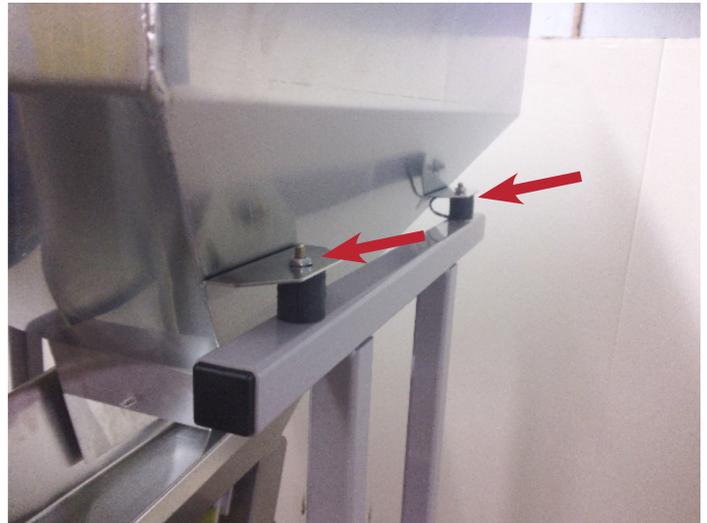


Fig. 1: Nuts holding Supply Hopper to rubber mounts



Fig. 2: Feed Pan exposed after removing Supply Hopper

3. The Feed Pan may be cleaned in the mounted position or be removed for a more thorough cleaning.

- To remove the Feed Pan, remove (4) bolts fastening the Feed Pan to vibrator with a 1/2" wrench. (Fig. 3)
- Remove feed pan and submerge for most thorough cleaning.

 The Feed Pan will tip forward as these screws are removed and will fall if not held during this process.



Fig. 3: (4) 5/16-18 bolts hold the Feed Pan to the Vibrator.

4. Remove the Discharge Spout (if applicable) from the Discharge Funnel by unscrewing the (2) rosette head thumb screws. (Fig. 4)

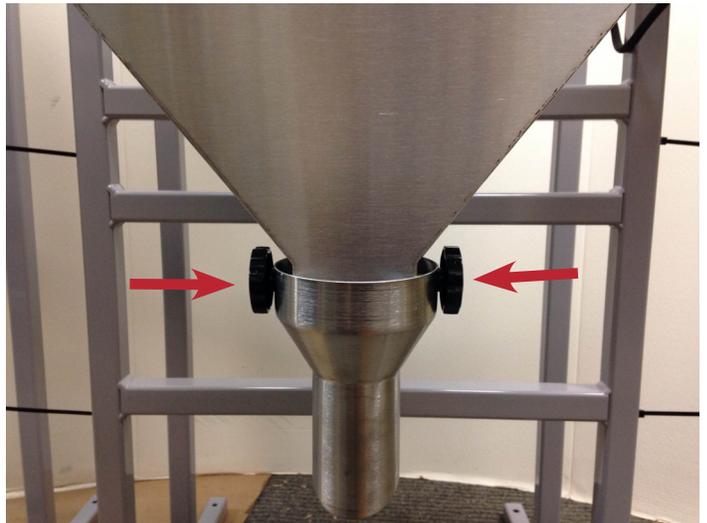


Fig. 4: (2) rosette-head thumb screws holding the Spout

5. Remove the Discharge Chute or Funnel by opening the quick-release cam lever, tilting the top of the Chute or Funnel forward, and lifting gently. (Fig. 5)

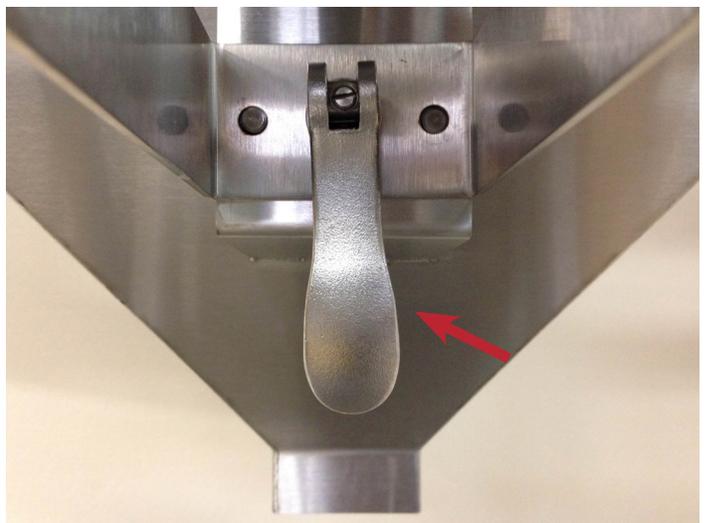


Fig. 5: The quick-release cam

6. Remove the Weigh Hopper assembly for easier cleaning. This is easier without the Feed Pan in place.
- A. Remove the (2) air hoses that run from the flow controllers to the solenoid. These air hoses can be attached rather firmly, so the easiest method is usually to unscrew the (2) 1/4" brass bars that protrude into the hoses. (Fig. 6)
 - B. Note that the air hose coming from the bottom of the solenoid goes to the lower end of the air cylinder. It's a good idea to mark the hoses so that you'll know how to reattach them.
 - C. Pull the black cable tie out of the chassis so that the air hoses hang freely. (Fig. 7)
 - D. After unscrewing the bars, the (2) 10mm screws that hold the Weigh Hopper to the load cell must be removed. Make sure to support the Weigh Hopper during this process or it may fall. (Fig. 8)
 - E. Now that all pieces have been taken off, clean as necessary.

7. Reassemble in reverse order.

Notes regarding reassembly:

- Air hoses must be routed to the correct bars for proper functionality
- This hose from the top of the air cylinder goes to the top of the solenoid. (Refer to fig. 6 for proper routing.)

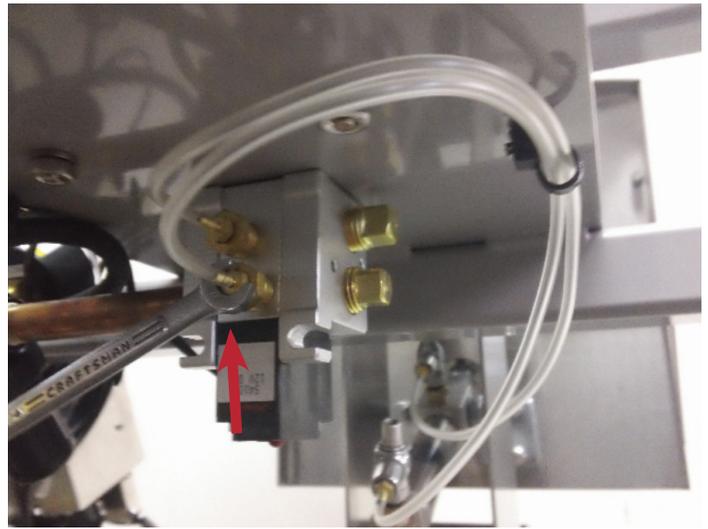


Fig. 6: Unscrewing the brass bars holding the hoses to the solenoid



Fig. 7: Solenoid and chassis without air hoses attached



Make sure to hold the Weigh Hopper so that it does not fall while removing the two bolts!



Fig. 8: Removing the two 10mm bolts holding the Weigh Hopper