

<b>GILES CHEMICAL CORPORATION</b>		
<b>COMPANY PROCEDURE</b>		
<b>2 LBS. CARTON MACHINE SETUP</b>	Page : 1 of 3	Date : Revision : 10/3/06
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## Objective

To provide a guideline for changing the carton machine over to two pound cartons.

## Scope

Liquipak 800 Machine's #1 and #2 (Normally ran on CM1)

## Responsibility

Repack Maintenance

## Definitions

Same as One Pound - The step can be omitted if converting from one pound cartons to two pound cartons

## Procedure

1. Adjust the carton basket to fit the two pound carton size (quart). Turn the black locking knobs located to the left, right, and bottom of the rack to move the guides in or out.
2. Locate the loader. Loosen the black locking knob and push the loader forward towards the machine. Tighten the black locking knob.
3. Turn the top 4 suction cups of the picker on. Turn the others off. Cut all of the unused suction cups off by turning the silver knobs located on the side (The suction cup is turned on when the flat side of the knob is facing up and it is turned off when the flat side of the knob is facing down).
4. Locate the two heater pads. These are the first and second stations the cartons pass through. Replace the current heater pads with two pound carton heater pads. To remove the previous pads, loosen the nuts located on either side of the pad (loosen two nuts for each pad). **(Same as One Pound)**
5. There are eight separate mandrel caps located at the tip of each mandrel. Pull the pin out of current mandrel cap and remove it. Put the two pound mandrel cap on the tip of the mandrel (the "O" should be facing the plexi-glass doors) and replace the pin. Repeat for the seven remaining mandrels. **(Same as One Pound)**
6. Slide the stoppers (bottom set of wings) on each arm all the way down. They can be moved by squeezing the two wings together and pulling down. **(Same as One Pound)**

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7. Position the carton guides (top set of wings) so they will hold the two pound carton. Manually hold the two pound carton on the mandrel cap. Hand-fold the carton on the bottom score lines and pull the carton until its bottom is flush with the mandrel cap. Position the carton guide so that it's top is even with the score lines on the carton top. The wings can be moved by squeezing the two wings together and pulling up or down.
8. Locate the guide plates. They are located by the picker suction cups and the loader chain. Remove the old guide plates. The bottom guide plate is removed by loosening a black locking screw located by the loader chain. The side guide plate is removed by loosening a cylindrical nut on the left side of the picker. Place the two pound guide plates in. Tighten the side guide plate nut and the bottom guide plate black locking knob. **(Same as One Pound)**
9. Remove the old press plates (flat metal plates after the heating sections) by loosening the screw located behind each plate. Place the two pound press plates in the holders. Tighten the screw into the back of each plate. **(Same as One Pound)**
10. Locate the four tee handles located on the last press plate.
11. Loosen the four tee handles and push the press plate up against the mandrel cap by hand. Move the breaker wings so that the top of the carton is folded correctly. Tighten the four tee handles once the breaker wings are in the desired location.
12. Adjust the unloader so that the spring mounted suction cups touch the side of the carton while it is on the mandrel. Adjust the suction cups by removing the pins located on top of the stroke and moving the suction cups in or out. Place the pin in the desired hole to hold the suction cup in place. **(Same as One Pound)**
13. Inspect the two pound transfer tube for dirt by looking down the shaft. If there is any dirt, clean it out by spraying compressed air through the shaft.
14. Tighten the tee handle and loosen the 5/8" nut located by the transfer tube. **(Same as One Pound)**
15. Pull the existing transfer tube out and put in the two pound transfer tube. (Leave the tee handle and the 5/8" tightened and loosened, respectively)
16. Raise the carton stabilizer just in front of the transfer tube by loosening the nut (located on the mandrel side). Retighten the nut.
17. Pull the unloader stroke down the track until the transfer tube can touch the carton on the unloader.
18. Loosen the tee handle located at the bottom of the stroke guide rails.
19. Turn the hand crank clockwise until the metal block reaches the stroke.
20. Tighten the tee handle.
21. Turn off the air to the machine.
22. Locate the carton lock before the conveyor and turn it to the two pound side. **(Same as One Pound)**
23. Turn the air back on.

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24. Loosen the nuts in the cooling rail support blocks (Just above the 2<sup>nd</sup> Press Plate).  
Adjust the rails to fit the two pound cartons (Index a few cartons beneath the top heater to check that the carton top lips are close to, but not contacting the heater head) and tighten the nuts back. **(Same as One Pound)**
25. Loosen the two hand screws located above the carton lock.
26. Blow out the salt from underneath the carriage using an air hose.
27. Move the carriage guide rails in or out so that they fit the two pound cartons.  
Adjust the carriage using the hand cranks located at the ends of both sides of the machine (silver wheels). Turn the wheel until the carriage reaches the stops for two pound cartons. **(Same as One Pound)**
28. Adjust the center rail up or down using the hand crank on the lower poucher side of the machine. Move until the indicator needle points to the quart marker (middle line).
29. Tighten the two hand screws located above the carton lock.
30. Locate the cooling rails just after the AMS feeder. There are four tee handle screws attached to these rails (two on each side of the machine). Loosen these handles and move the rails in or out to fit the two pound carton. Tighten the four tee handles once the rails are in the desired position. **(Same as One Pound)**
31. Adjust the rails at the end of the machine in or out to fit the two pound cartons.  
Loosen and tighten the rails with an allen wrench. **(Same as One Pound)**
32. Adjust the guide at the very beginning of the conveyor in or out to fit the two pound cartons by loosening the four bolts (two for each rail). Tighten the four bolts once the guide is in the desired position. **(Same as One Pound)**
33. Adjust the AMS to a setting of 890.
34. Locate the AMS feeding nozzle in the machine. Remove the screws from the existing nozzle with an allen wrench. Push down on the nozzle until it comes off of the feeding bin. Place the two pound feeding nozzle on the bin and replace the screws with an allen wrench. **(Same as One Pound)**