

# 4700 Pump Cover Assembly

## Installation Instructions

Instruction Sheet #69-4703-149  
October 22, 2007

### Overview

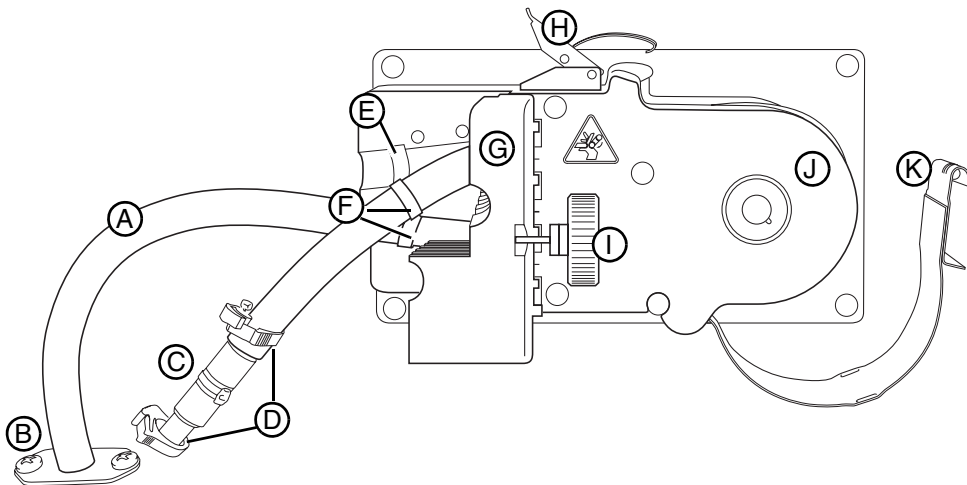
The pump cover assembly for the 4700 Refrigerated Sampler (Isco Part #60-4704-142) was developed to provide the pump with additional security and protection from the environment. The following instructions explain how to install the pump cover onto a sampler.

### Preparing the Sampler

It is necessary to remove the pump module in order to install the pump cover.

 **WARNING**

**The pump is extremely powerful and can injure you severely if the sampler activates while you are servicing it. Turn the sampler OFF and remove AC power before performing any service work on the sampler.**



**Figure 1: 4700 Pump**

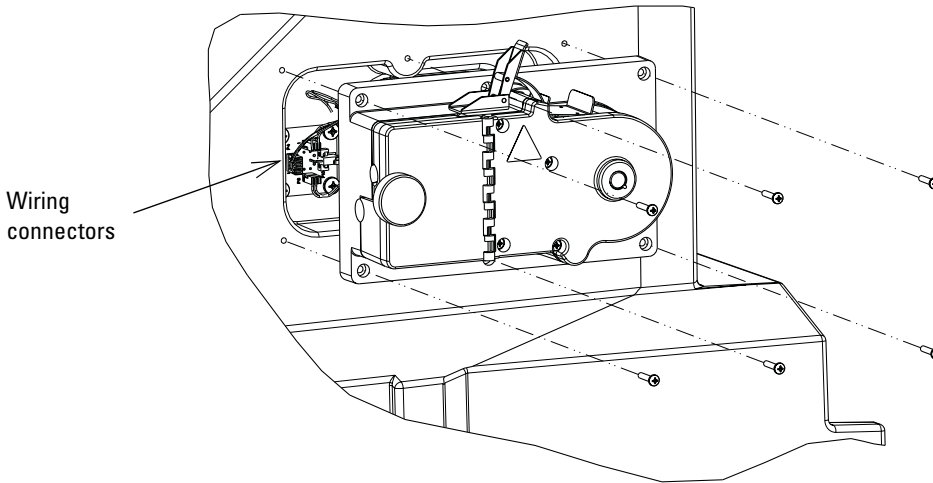
- |    |                   |    |                       |
|----|-------------------|----|-----------------------|
| A. | Pump Tube         | G. | Liquid Detector Cover |
| B. | Bulkhead Fitting  | H. | Latch                 |
| C. | Tubing Coupler    | I. | Knob                  |
| D. | Clamps            | J. | Pump Housing          |
| E. | Alignment Notches | K. | Pump Housing Band     |
| F. | Alignment Collars |    |                       |

## Pump Module Removal

### **WARNING**

Removing the pump module exposes you to electrical and mechanical hazards. Always disconnect the AC power cord before attempting to remove any module. Only trained service personnel should remove or replace any module.

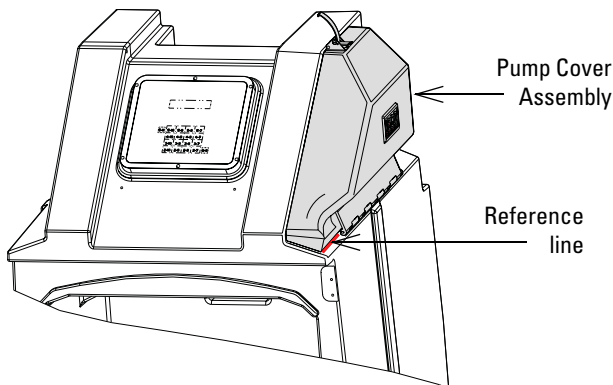
1. Beginning with the three bottom screws, remove the six mounting screws (see Figure 2), holding the module in place to avoid pull or strain on the wires.



**Figure 2: Pump module removal**

## Pump Cover Installation

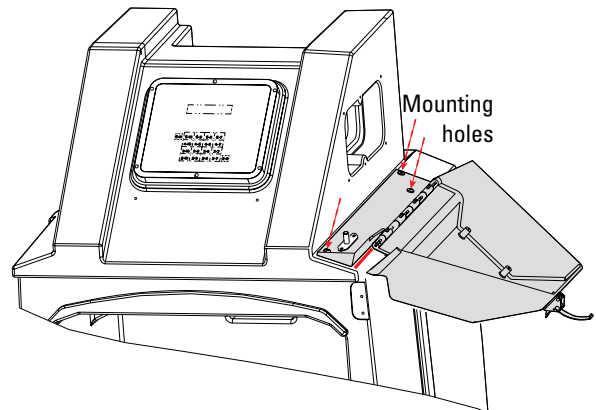
1. With the cover in the closed position, align the bottom hinge plate along the refrigerator frame as shown in Figure 3. Draw a reference line on the frame, along the bottom edge.



**Figure 3: Aligning the cover**

2. Open the cover, holding the bottom edge along the reference line, and positioning the cutout over the tubing bulkhead (Figure 4). Draw reference marks on the frame through the three mounting holes.

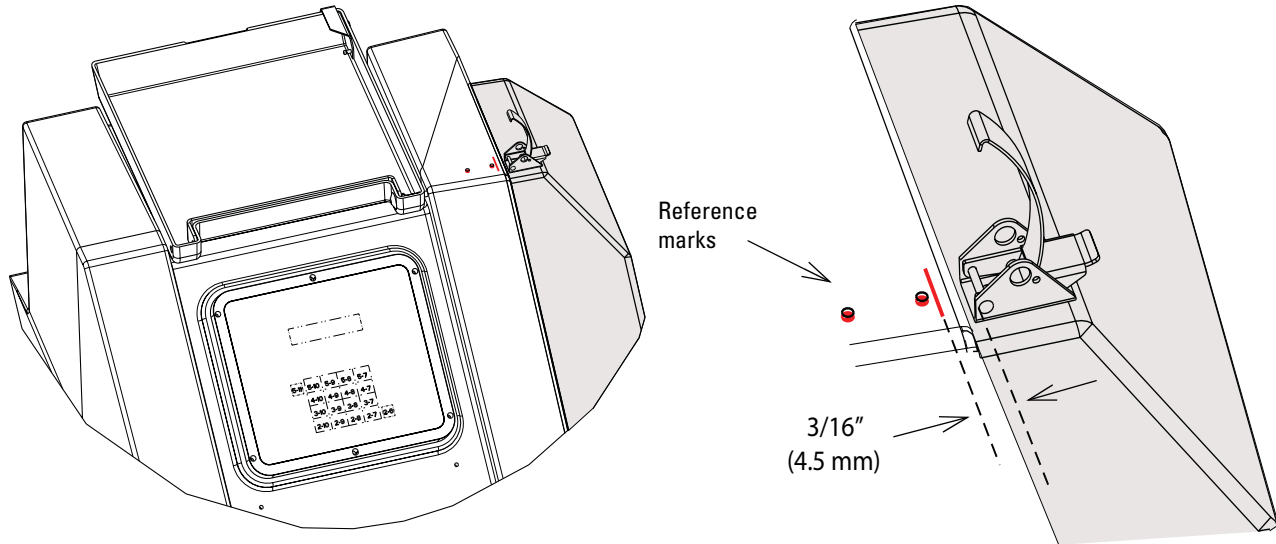
2. Pull the module away from the refrigerator body to expose the wiring connectors.
3. Disconnect the four wiring connectors.
4. Clean the pump module mounting surface on the refrigerator body. This will help ensure that the gasket on the module will seal properly upon reinstallation.



**Figure 4: Positioning the cover base**

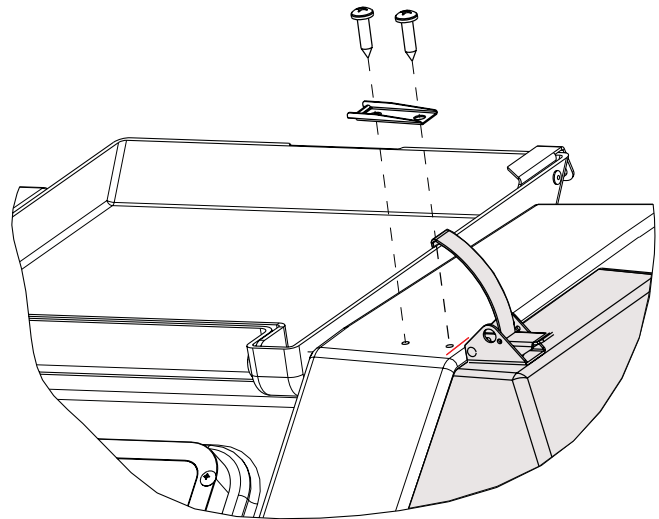
3. Set the cover aside. With a  $1/8$ " bit, drill holes through the three reference marks on the frame.
4. Realign the open cover over the holes and reference line. Secure the cover in place with three #14 self-tapping screws (included in kit) and tighten them until fully seated.
5. Holding the cover closed, measure  $3/16$ " (4.5 mm) in from the front face of the latch and draw a reference line on the frame parallel to the edge (Figure 5).

6. Position the latch keeper (small metal plate from kit) with the flat edge against the reference line, across from the latch. Draw reference marks on the frame through the two mounting holes.
7. With a  $\frac{1}{8}$ " bit, drill holes through the two reference marks (Figure 5).



**Figure 5: Aligning the latch keeper**

8. Realign the latch keeper and secure it in place with two self-tapping screws (Figure 6). Tighten until fully seated. The latch should now be able to engage with the keeper, securing the pump cover in the closed position.



**Figure 6: Attaching the latch keeper**

## Completing the Installation

1. Leaving the cover open, reattach the wiring connectors from the pump module.
2. Align the module over the mounting holes and secure it with the mounting screws, inserting the top three first. After all six screws are inserted, tighten and torque to 16 to 18 in/lbs.

 <b>CAUTION</b>
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Ensure that all wires are tucked into the pump module compartment and not caught between the gasket and refrigerator wall (see Figure 2).

3. Replace the pump tube.
4. Perform a pump diagnostic test (referring to your sampler manual).

This completes the installation procedure for the 4700 Pump Cover Assembly.

*Last modified November 1, 2007*

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