

4700 Control Panel Assembly

Installation Instructions

Overview

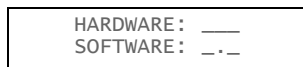
Some issues involving the 4700 control panel may be software related. Verify that the sampler has the latest software version before replacing the control panel.

Software Version

Select SYSTEM IDS to view the sampler's software version.



Select the SYSTEM IDs option and press Enter twice.



This screen lists the version numbers of the installed hardware and software. Press Enter to return to the SELECT OPTION <--> screen.

Updating the Software

The software update is stored as a zip file.



Updating the sampler's software affects the program settings and may completely erase the stored data. Record program settings and collect all data from the sampler before proceeding.

Visit www.isco.com/ to download the latest software for the 4700 (or contact the factory to request the update be sent via e-mail). The optional 3.8 m (12.5 ft) RS-232 serial communication cable, 69-5804-042, connects the DB9-pin serial port of a computer to the serial port (interrogator port) on the sampler. There is an optional USB cable 60-5804-177 which can be used to connect the 4700 to a USB port of a computer.

Control Panel Removal



Always disconnect the 4700 sampler from AC power before performing service and repairs.

Items required

- Replacement control panel
 - part #60-4704-031 US/Europe
 - part #60-4704-167 China
- #2 Phillips screwdriver

To remove the control panel

1. Open the top cover of the sampler.
2. Remove the mounting screws (see Figure 1).
3. Carefully lift the module away from the refrigerator body to expose the wiring connectors.

Instruction Sheet #60-4702-051 Revision B, May 2013

4. Referring to Figure 2 on the following page, label the wiring harnesses with the circuit board locations for ease of reconnection to the new panel.
5. Disconnect the wiring harnesses from the old panel.

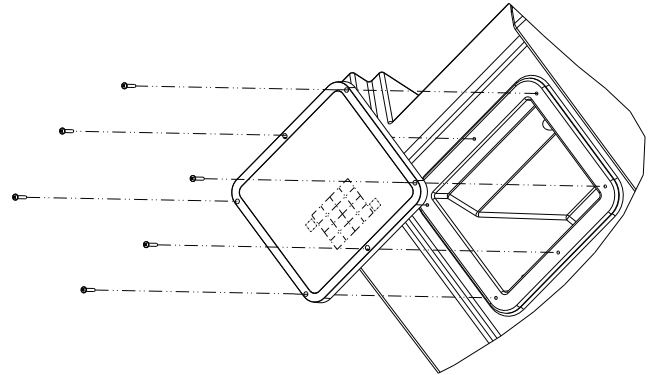


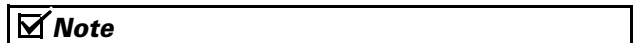
Figure 1: Control panel module removal/replacement

Control Panel Installation

Clean the control panel module's mounting surface on the face of the refrigerated compartment. This will help ensure that the gasket on the new module will seal the enclosure. Ensure that the gasket seal is in place. The gasket surface must be smooth, clean, and free of nicks or cracks. If any imperfections are visible, replace the gasket (Isco part #60-3113-028).

Installation:

1. Attach the wiring connectors to the new module.



There are two versions of the circuit board. The 4700 sampler can work with either version. In the table on the following page, the connector labels for both board versions are shown, next to the description and wire colors.



The wire colors on the temperature sensor cable may be either black and white, or black and red. Both versions are identified in the table on the following page.

2. Ensuring that no wires are caught between the module and mounting surface, align the module over the mounting holes.
3. Reinstall the control panel screws and tighten down uniformly and snugly (16 to 18 in/lbs).
4. Reconnect power and perform all diagnostic tests (refer to the *4700 Installation and Operation Guide*).

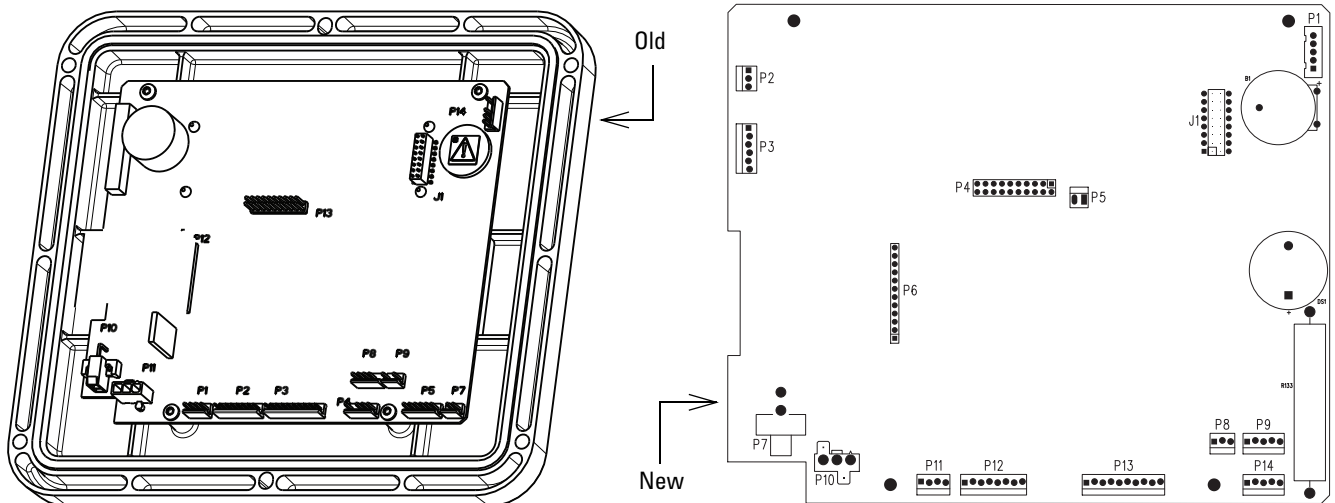


Figure 2: Control panel wiring connectors

Old	New	Function	Wire Colors	Old	New	Function	Wire colors
P14	P1	Refrigeration Control		P9	P8	Pump Latch	
P7	P2	Pump Liquid Detector		P8	P9	Pump Rotation Sensor	
P5	P3	Temperature Sensors	or	P11	P10	Power - Controller	
P13	P4	Not Used		P1	p11	Distributor Motor	
	P5	Door Open (SPA only)		P2	P12	External Device Interface	
P12	P6	Keypad	(Ribbon Cable)	P3	P13	External Device Interface	
P10	P7	Pump Motor		P4	P14	Distributor Sensor	

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