

5800 Control Panel Assembly

Installation Instructions

Overview

Some issues involving the 5800 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 OPTION: (<-->)
SYSTEM IDS
  
```

Select the SYSTEM IDS option and press Enter twice.

```

HARDWARE: ____
SOFTWARE:  _ _
  
```

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.

⚠ CAUTION

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 5800 (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 5800 to a USB port of a computer.

Control Panel Removal

⚠ WARNING

Always disconnect the 5800 sampler from AC power before performing service and repairs.

Items required

- Replacement control panel (one of the following)
 - part #60-5804-031 US/Europe
 - part #60-5804-152 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.

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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.

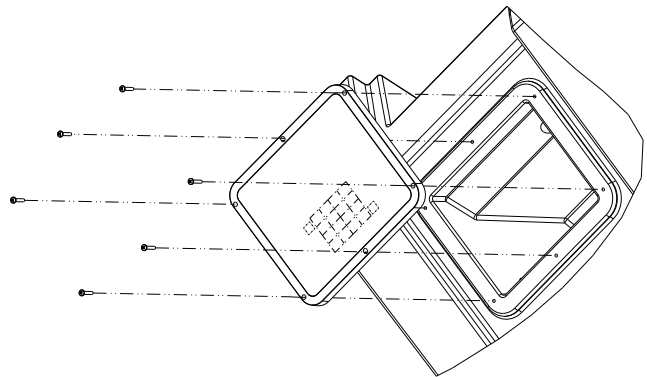


Figure 1: Control panel module removal/replacement

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.
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 *5800 Installation and Operation Guide*).

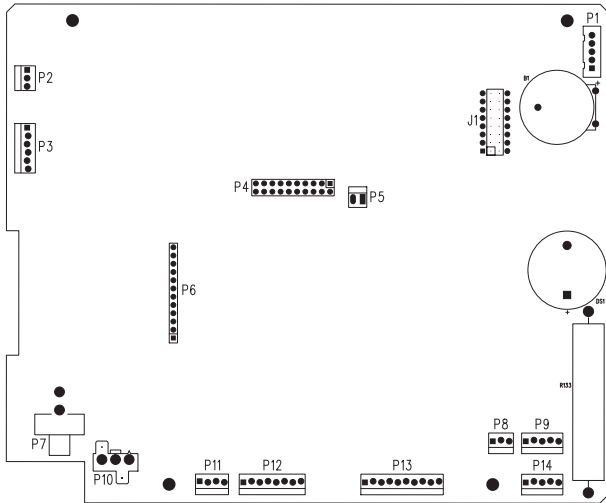


Figure 2: Control panel wiring connectors

Table 1: Control Panel Connector Identification and Wiring

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

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