



HLX-PCB-MAIN

Replacement Main Board for OmniLogic

Installation Manual

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HLX-PCB-MAIN

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Description

The HLX-PCB-MAIN is a replacement Main Board for the OmniLogic pool controller.

Compatibility: The MSP firmware **MUST** be at version 4.0.0 or greater. After board replacement, check firmware version and upgrade if needed. Refer to the OmniLogic Installation manual for firmware upgrade instructions.

Installation

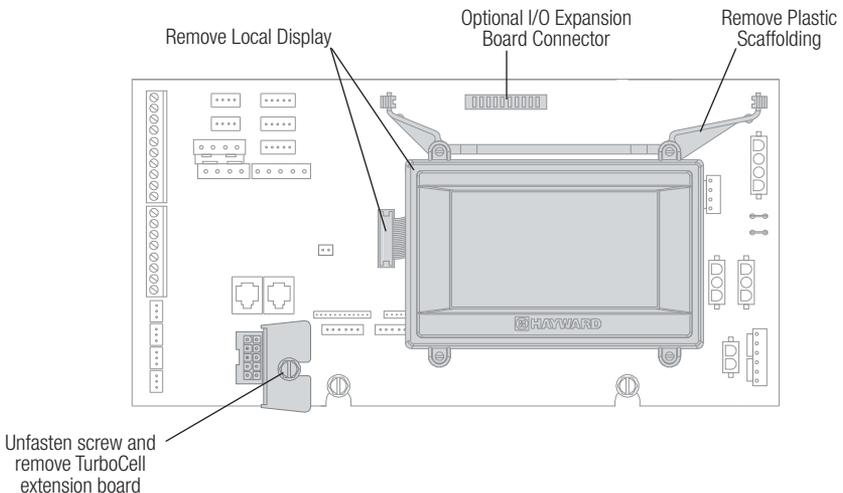
DANGER of Death, Injury or Property Damage if procedure not followed. This accessory connects to the OmniLogic panel beneath the dead front. Dead front removal is required for this installation. Power to the OmniLogic panel **MUST** be completely shut off before the dead front is removed.

Pre-2023 Models

Identify and Remove all Wiring Connections

Before you start disconnecting wires, you may want to take photos or mark the wiring with tape to identify connections. These wires will be reconnected to the new OmniLogic Main Board included in the kit. A general description of the connectors is shown below. Note that the sensor/interlock and heater output screw terminal blocks will fit on the new OmniLogic Main Board. Rather than remove each connection from the screw terminals, pull up on the entire terminal block to remove.

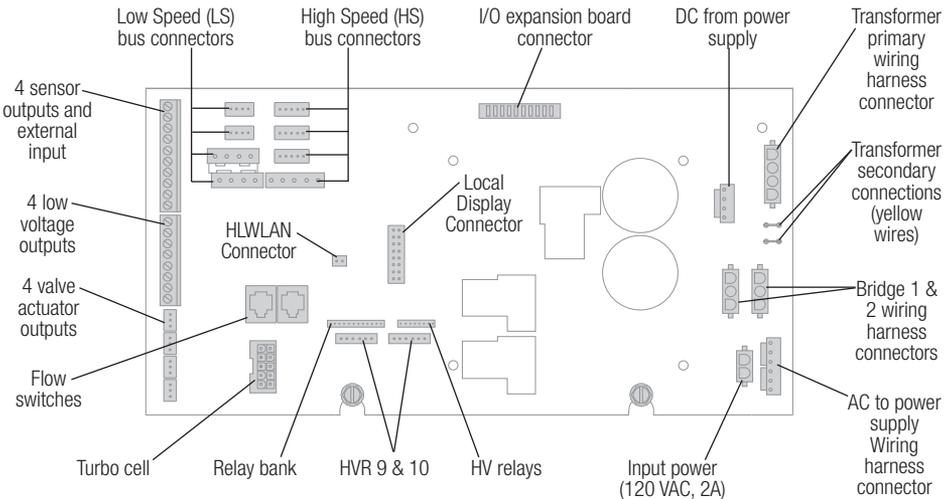
1. COMPLETELY DISCONNECT POWER TO THE CONTROL AND ITS ELECTRICAL PANEL.
2. Remove the deadfront panel to expose the Main Board.
3. Unfasten the screw holding the TurboCell extension board in place and then remove the board.
4. If using the optional I/O expansion board, disconnect all connections from the I/O expansion board and then remove it from the plastic scaffolding.
5. Remove the Local Display by disconnecting the ribbon cable and pulling straight up.





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- Remove the plastic scaffolding by pulling each leg straight up away from the Main Board.
- Take a picture of all wiring connections and then remove all connections. Refer to the graphic below for wiring connection labels.



- Loosen the two screws that secure the Main Board to the enclosure.
- Remove the Main Board from the enclosure by lifting the board up and then out.

Replace the Main Board

With the old Main Board removed from the enclosure, install the new Main Board in its place. Note that each wiring connection is in the same location as the old Main Board. The only difference is the connector for the new remote Control Pad (not included). Refer to the illustration on page 4 for the location of the new remote Control Pad connector.

- Install TurboCell extension board into the new Main Board.
- Mount the new Main Board into the enclosure by aligning the standoffs on the back with the holes in the enclosure then pushing the Main board in and then down until it stops.
- Secure the Main Board in place using the two screws that were previously loosened. Fasten the TurboCell extension board with the previously removed screw.
- Reattach all previously removed wiring connections. If you did not take a picture, refer to the graphic above for wiring connections.
- Reinstall the plastic scaffolding, local display, and I/O expansion board (if used).
- Reinstall the deadfront panel.

Configuration

Now that the Main Board has been replaced, all wiring is reconnected, and the deadfront panel is in place, the system is ready to be reconfigured.

- Apply power to the OmniLogic system and wait for it to fully power on.



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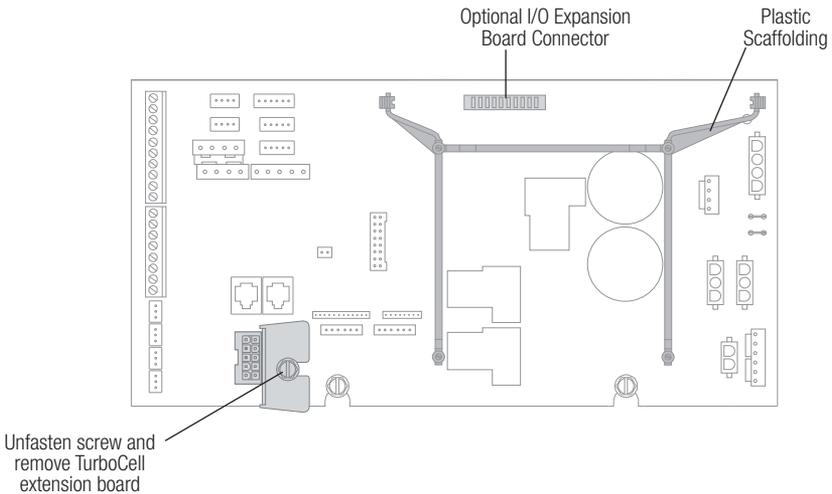
2. Update MSP firmware if less than version 4.0.0. Refer to the OmniLogic Installation manual for instructions.
3. Navigate to the Config Wizard menu and follow the instructions in the OmniLogic Installation manual to reconfigure the system.

2023 and Newer Models

Identify and Remove all Wiring Connections

Before you start disconnecting wires, you may want to take photos or mark the wiring with tape to identify connections. These wires will be reconnected to the new OmniLogic Main Board included in the kit. A general description of the connectors is shown on the following page.

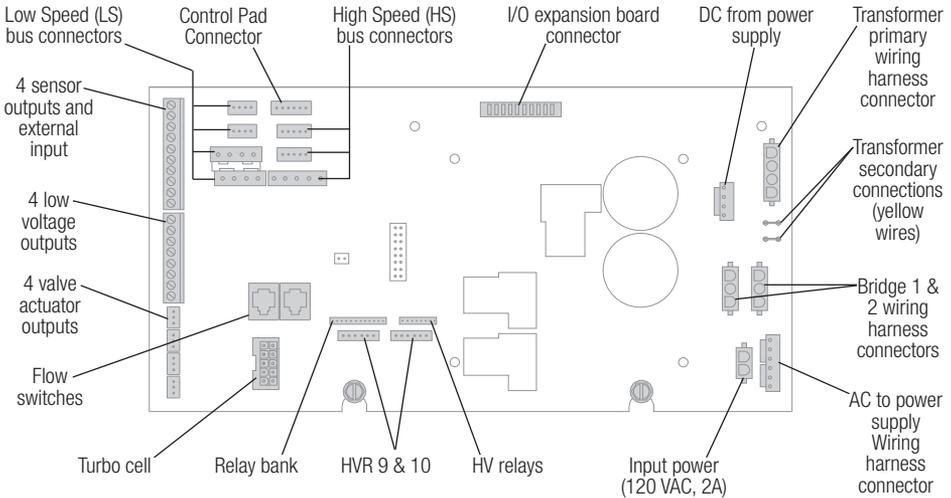
1. COMPLETELY DISCONNECT POWER TO THE CONTROL AND ITS ELECTRICAL PANEL.
2. Remove the deadfront panel to expose the Main Board.
3. Unfasten the screw holding the TurboCell extension board in place and then remove the board.
4. If using the optional I/O expansion board, disconnect all connections from the I/O expansion board and then remove it from the plastic scaffolding. Remove the plastic scaffolding by pulling each leg straight up away from the Main Board.



5. Take a picture of all wiring connections and then remove all connections. Refer to the graphic on the following page for wiring connection labels.
6. Loosen the two screws that secure the Main Board to the enclosure.
7. Remove the Main Board from the enclosure by lifting the board up and then out.



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Replace the Main Board

With the old Main Board removed from the enclosure, install the new Main Board in its place. Note that each wiring connection is in the same location as the old Main Board.

1. Install TurboCell extension board into the new Main Board.
2. Mount the new Main Board into the enclosure by aligning the standoffs on the back with the holes in the enclosure then pushing the Main Board in and then down until it stops.
3. Secure the Main Board in place using the two screws that were previously loosened. Fasten the TurboCell extension board with the previously removed screw.
4. Reattach all previously removed wiring connections. If you did not take a picture, refer to the graphic above for wiring connections.
5. If using the optional I/O expansion board, reinstall the plastic scaffolding then insert the I/O expansion board into the guide rails of the plastic scaffolding.
6. Reinstall the deadfront panel.

Configuration

Now that the Main Board has been replaced, all wiring is reconnected, and the deadfront panel is in place, the system is ready to be reconfigured.

1. Apply power to the OmniLogic system and wait for it to fully power on.
2. Update MSP firmware if less than version 4.0.0. Refer to the OmniLogic Installation manual for instructions.
3. Navigate to the Config Wizard menu and follow the instructions in the OmniLogic Installation manual to reconfigure the system.



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