ASSEMBLY GUIDE

Complete PRO II

Assembly - Parts

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CONSIDERATIONS BEFORE BEGINNING ASSEMBLY

Before beginning assembly, consider how you will want to configure your pump station. The pump station comes configured for a right-facing pump installation. If you need to change the direction of the pump, be sure to begin with the “changing the direction of the pump” instructions (p.5).
Step 1 – Preparing the enclosure for irrigation system access

1. Using a hammer, knock out the interior circle, focusing on the two metal tabs, to free the knockout.

2. Lower enclosure over the irrigation system inlet.

Step 2 – Preparing the pump

Remove Forward Plug

1. Remove front plug at the top of the pump.

Discharge Fittings

2. Install discharge assembly in the top discharge port.

3. In most cases, the open end of the 90° elbow should be pointing toward the back of the pump.

Note: Pipe dope or Teflon tape is needed at each connection point. Fully tighten each connection with a pipe wrench.
Step 2 – Preparing the Pump (Continued)

**Pressure Gauge and Pressure Sensor**

4. Thread pressure gauge and sensor pre-assembly into front-side opening ending parallel to pump motor.

5. Install the gauge in opening closest to the motor and facing away from the pump.

6. Install the pressure sensor into the front opening.

**Temperature Sensor**

7. Remove plug in the lower left of the pump case. Install temperature sensor where the plug was removed.

**Suction Fittings**

8. Install suction assembly into the front suction port.

9. Either end can be installed for male or female connectivity.

Note: Keeping cam handles at top and bottom will reduce the likelihood of suction leaks.

10. The installation of pump fittings should be complete and appear as pictured.
Step 3 – Final Assembly

1. Glue the cam fitting onto the irrigation inlet.

2. Remove packing board from bottom of the pump.

3. Set the pump into the pump enclosure with the suction fittings facing the suction pass-through panel.

4. Push the threaded end of the suction fitting through the suction pass-through panel to connect to water source. We recommend threading this fitting to a valve for isolation purposes.

5. Connect the loose wire from the top of the pressure sensor boot to the temperature sensor.

6. Affix the pressure sensor wires and boot to the top of the pressure sensor.
Step 3 – Final Assembly (Continued)

7. Attach the discharge hose assembly to the 90° elbow and system inlet fitting.

8. Plug the electrical cord into the electrical outlet.

Step 4 – Wiring the pump control box to the irrigation controller

1. Refer to the owners manual and wiring diagram included in the electrical control box.

   ![Wiring Diagram]

**WARNING**

- Wire motor for correct voltage. See “Motor & Electrical” section of this manual and motor nameplate.
- Ground motor before connecting to power supply.
- Meet National Electrical Code, Canadian Electrical Code, and local codes for all wiring.
- Follow wiring instructions in this manual when connecting motor to power.

Changing the direction of the pump

To meet your installation requirements, you can change the side through which the electrical and suction enter the enclosure.

- Use caution. Some edges may be sharp!

Step 1 – Remove the suction pass-through panel

1. Remove the nuts and bolts holding the suction pass-through panel in place and slide the suction pass-through panel up and out of the enclosure. Set the panel aside.
Step 2 – Remove the electrical assembly

1. Remove the screws on the front of the pump control box to remove the front cover.

2. Remove the time delay device (if supplied) by gently rocking and pulling from the socket.

3. Loosen all connected wires from the relay, ground screw and time delay socket.

4. Unscrew the chase nipple on the inside bottom of the pump control box and SLB to disconnect the SLB from the box. Use 1” box wrench to loosen the chase nipple.

5. Using a screwdriver, remove the cover plate from the SLB.

6. Out of the bottom, pull the wires from the pump control box through the chase nipple and SLB.

7. On the outside of the pump enclosure, unscrew the SLB from the pipe nipple on the electrical outlet assembly. Pliers may be needed.

8. Feed the outlet assembly, wires and pipe nipple through the round hole on the electrical pass-through panel, to the inside of the enclosure.

9. On the bottom of the enclosure, remove the 4 nuts and bolts holding the control box brace in place.

10. Remove the 6 bolts that hold the electrical pass-through panel in place, 4 are shared with the control box brace.

11. With the control box still attached, remove the outside braces. Slide the electrical pass-through up and out of the enclosure.
Step 3 – Replacing the suction pass-through panel

1. Slide the suction pass-through panel into place on the opposite side of the enclosure, ensuring that the suction hole is aligned to the pump suction height. Replace the nuts and bolts to secure the suction pass-through panel.

Step 4 – Reconnecting the electrical assembly on the opposite side

1. Holding the pump control box brace, with pump control attached, place on the outside of the enclosure and secure the nuts and bolts into place.

2. With the electrical outlet assembly on the inside, feed the outlet assembly wires and pipe nipple through the round hole on the electrical pass-through panel of the enclosure.

3. On the outside of the pump enclosure, thread the wiring through the round opening on the end of the SLB. Screw the SLB to the pipe nipple on the electrical outlet assembly. Ensure that the other round opening is facing up, toward the control box, and the uncovered access is facing down.

4. Screw the chase nipple through the knockout hole on the bottom of the pump control box and into the SLB to secure the SLB to the bottom of the pump control box. Use 1” box wrench to tighten the chase nipple on the SLB.

5. Thread the wiring from the SLB into the pump control box, passing through top SLB hole and chase nipple. Replace SLB cover plate.

6. Rewire the control panel using the instructions found on the inside of the box lid. Replace time delay device (if supplied).

You are now ready to follow the general assembly instructions.