

KOLD-DRAFT®

PART #'S 102146301 – 102146302 – 102146303 – 102146304 - 102146305

WATER PUMP INSTALLATION INSTRUCTIONS

DOCUMENT #307 1056 01

CAUTION! RISK OF PERSONAL INJURY, PROPERTY DAMAGE, EQUIPMENT FAILURE OR FIRE

Refer all maintenance to qualified personnel. Disconnect power before servicing equipment.

Read and understand all instructions before proceeding.

Disassembly of Old Pump

1. Turn off power to the cuber. If the machine is a 220V with a Grundfos Pump remove the cover for the transformer located behind the control box and unscrew wires. For machines with the old pump, wire will be cut 12-15" behind the control box. If the machine has a Grundfos pumps, the wire-connectors will have to be cut. If you have a GT5 series machine with Grundfos pump see note 1 below. If you have a GT5 series machine with the pump shown below see note 2.

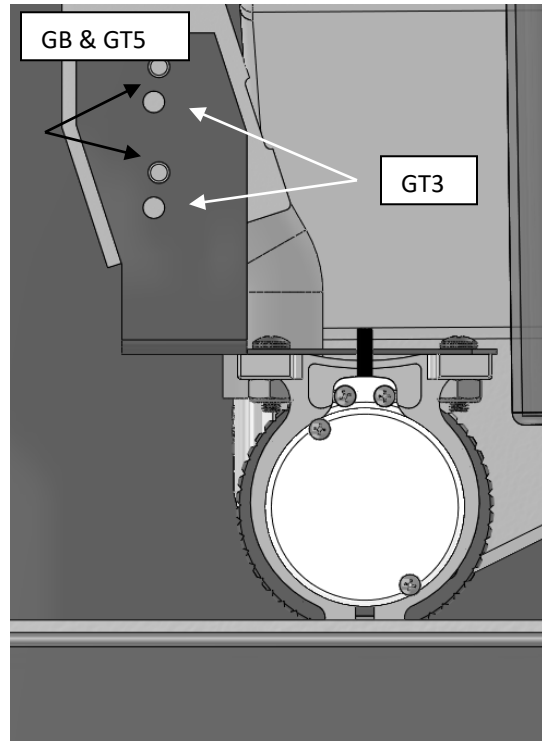
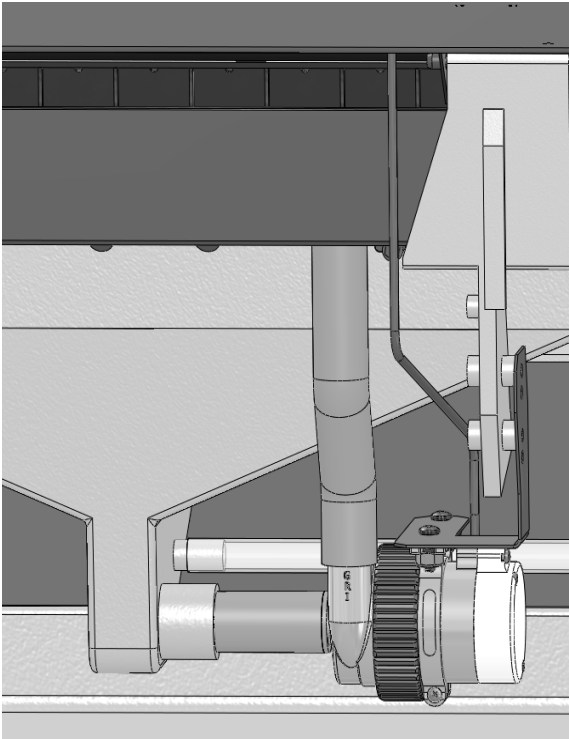


Note 1: GT5 series (220V) with the transformer near the compressor will need to be removed after disconnecting wires. The wires coming from the control box (green, brown, and black) will stay and need to be used as the input to the power supply. Take the wires and reroute them through the control box into the top left grommet so they come out the back. GT5 series (115V) will need to be cut 5" before the grommet that takes the wire to the pump.

Note 2: If you have the above pump then the wire will be cut 5" before the grommet whether it is 115V or 220V. The splined, smooth, and flat wires remaining will be used for the power supply.

2. Remove the old pump wire. Pull hose out at the bottom of the water tube to allow any remaining water to be drained. Remove the two screws (5/16) which hold the pump assembly to the water plate bracket (keep screws). Remove old pump and hoses. For stacked machines remove the drain pan for the top machine only.

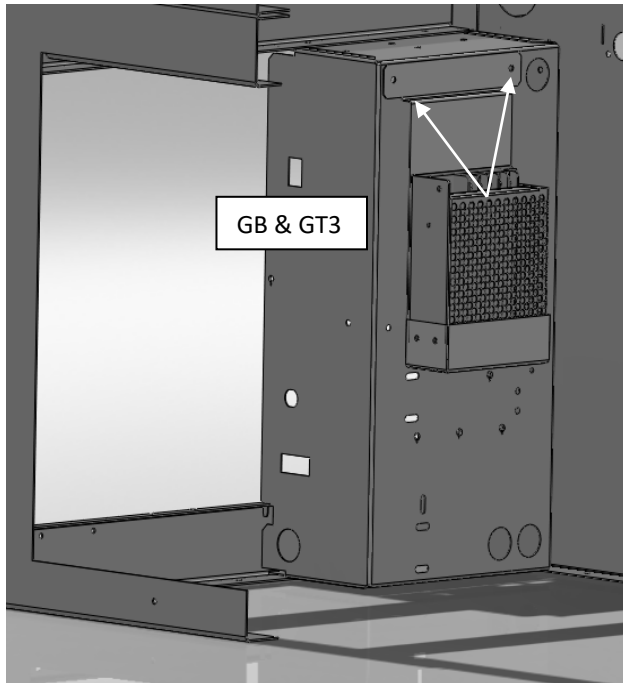
Assembly of New Pump



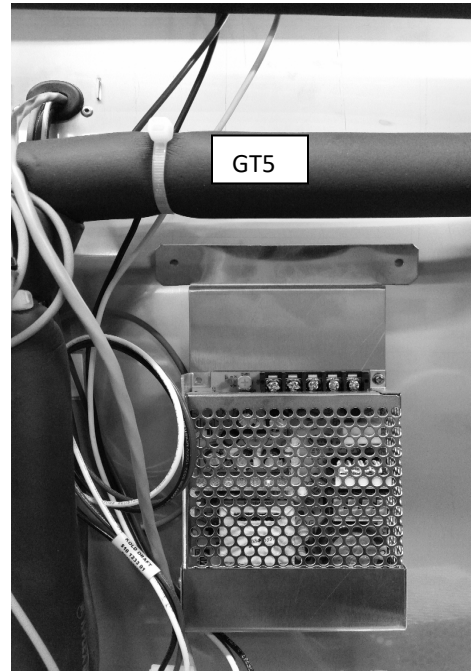
1-1

1. Insert new hoses, short hose will go inside the tank and outside of pump inlet. Assemble the bracket onto the pump as shown. The side with two holes will be screwed onto the pump (nut on bottom), the pump inlet and outlet to the left, and four holes on the bracket to the right and upwards. Run the pump wire on the inside and left of the bracket. Then insert the pump inlet and outlet to proper hose and screw the bracket to the appropriate holes. Note: Use upper holes on pump bracket (black arrows) for GB/GT5s and lower holes (white arrows) are for GT3s. See picture 1-1.
2. For 1060 series machines only, the pump wire for the bottom machine will go through the grommet and along in the support channel where the previous pump wires were. The pump wire for the top machine will run through the right side grommet and along the right support channel into the back grommet. Other ice machines will have the new pump wire run through the grommet and support channel the previous pump wire ran through.

3. For GT500 series machines only, the power supply will be mounted on the inner side wall upper shelf, in the compressor area with double-sided tape. See picture 1-3. All other 115V machines will have the power supply for the water pump mounted using two screws (white arrows) behind the control box. See picture 1-2 to identify mounting holes. For 220V machines: Remove step-down transformer behind the control box, unscrewing the metal plate bracket holding the transformer. Keep the two screws (6/32) from the bracket and replace metal plate bracket with new one that has the 150 watt power supply.



1-2



1-3

4. Using the wires that were either cut or removed from the transformer in disassembly section, connect the white wire (or splined or brown) to the “N” screw terminal, black wire (or smooth) to “L”, and green wire (or flat) to ground on the power supply. Wires from the new pumps will have red screwed to the “V+” terminal and black to the “V-” terminal. There is NO ground wire for the water pumps. Any excess wire that is hanging around should be zip-tied and inserted into a wire harness. **NOTE: Output of power supply behind control box is DC, failure to connect wires to water pump correctly will result in a damaged water pump.**
5. When the assembly is completed do NOT turn on the ice machine until you have filled it with water. **Since the water was drained in the disassembly, running the motor dry will damage it.** Before turning on you must pour water in the water plate and fill it until you see water in the outlet hose of the pump. Then the ice machine is ready to run.
6. Monitor water stream in the water control stream box and adjust if needed. The water should land on the center of the hole in water plate. Note to adjust stream turn the stainless steel Phillips head on the control stream box the opposite direction you want to move the stream.

