

# INSTRUCTION MANUAL FOR DSB-500 & DSB-1000

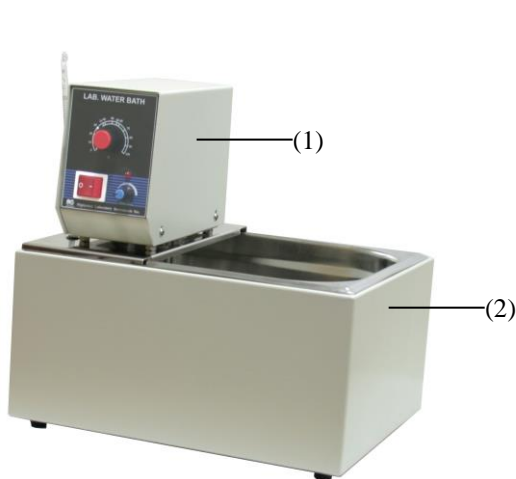


Figure 1

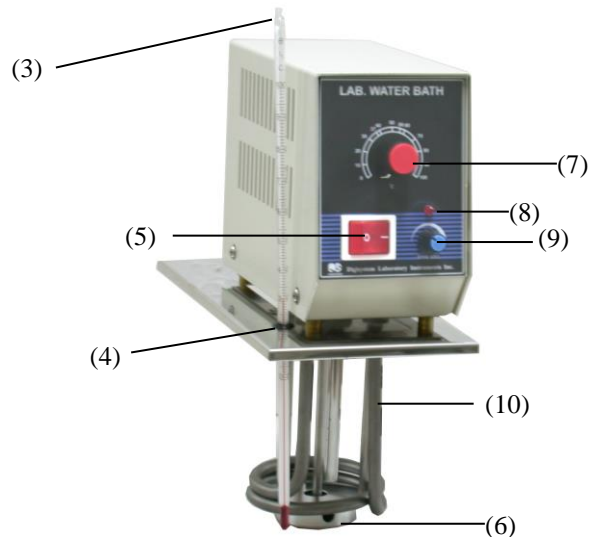


Figure 2

## Names of parts:

- |                         |                             |
|-------------------------|-----------------------------|
| (1) Controller          | (2) Tank                    |
| (3) Thermometer         | (4) Opening for Thermometer |
| (5) Power Switch        | (6) Pump Circulator         |
| (7) Temperature Control | (8) Heater Lamp             |
| (9) Fine Adjuster       | (10) Heater                 |

1. Take “Controller” (1) out and set it into “Tank” (2) as Figure 1.
2. Pour water into “Tank” until water level covers half height of “Tank”.
3. Insert “Thermometer” (3) into the “Opening for Thermometer” (4), and to be sure that the end of “Thermometer” is under the water level. (In order to insert “Thermometer” into the “Opening for Thermometer” easily, you can wet “Thermometer”.)
4. Before connecting the power supply, please check if “Power Switch” (5) is placed at “OFF” position.
5. Place “Power Switch” at “ON” position, then switch lamp lights up and “Pump Circulator” (6) starts running.
6. Adjust “Temperature Control” (7) to the required Temperature scale, and then “Heater Lamp” (8) lights up. When water temperature reaches the required temperature scale, “Heater Lamp” becomes off.
7. Check the “Thermometer” if the temperature is the same as the required temperature. If the thermometer temperature is under the required temperature, turn “Fine Adjuster” (9) clockwise slightly; if the thermometer temperature is over the required temperature, turn “Fine Adjuster” (9) counterclockwise slightly. Check and adjust until the thermometer temperature is the same as the required temperature.

## **Warning:**

If water level is under the bottom of “Heater” (10), you must pour water into “Tank” to cover the heater.

## SERVICE MANUAL

**Caution:** Always disconnect the power cord before troubleshooting.

Trouble	Cause	Remedy
Instrument inoperative	Power cord not connected to outlet.	Plug instrument in..
	Dead power output.	Change to different output.
Controller can't control the water temperature	Sensor is broken	Replacing a sensor
	Temperature control knob	Replacing a control knob
	Heater is broken	Replacing a heater
Pump Circulator doesn't work well	Pump Circulator is broken	Replacing a Pump Circulator
	Foreign bodies blockaged the pump Circulator	Sweep away the foreign bodies

## CIRCUIT DIAGRAM

WATER BATH

MODEL: DSB-500 , DSB-1000

