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# Operation Manual for Small Digital Orbital Shaker **DOR-2828D**

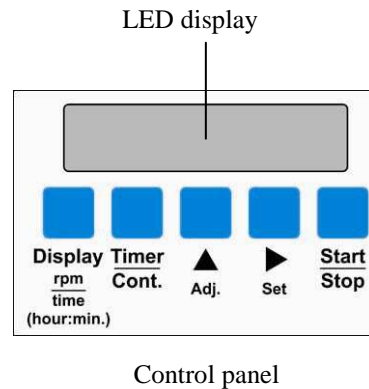
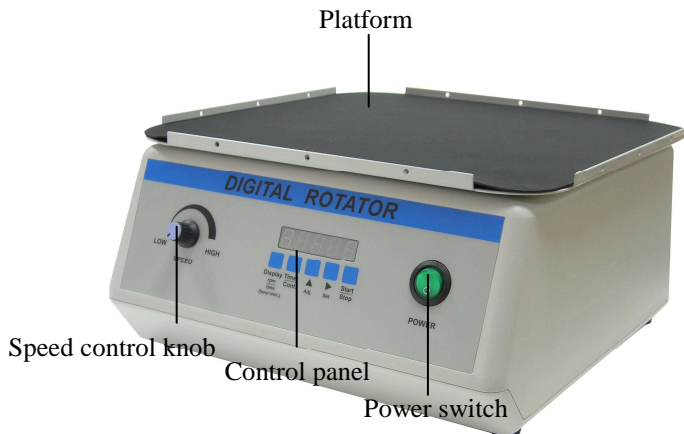


**PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATION**

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# INSTRUCTION MANUAL



## Specifications:

1. Speed: 20 ~ 240rpm
2. Timer: 99 hours and 59 minutes digital timer
3. Orbital diameter: 20mm
4. Display: Digital display for present speed value and remaining time
5. Load capacity: no more than 2.0kg under 150rpm; no more than 1.5kg over 150rpm to 240rpm

## Operation procedure:

1. Connect the power supply.
2. Place and fix the specimen on the '**Platform**'. Power on the '**Power switch**'. First, the '**LED Display**' will show the time value that you set last time. If your previous setting is **Cont.** mode (Continuous mode), you will see 'contu' on '**LED Display**'.
3. Setting time: Press the '**Timer / Cont.**' key to select the operation mode (Timer mode or Continuous mode).
  - 3.1 If the **Cont.** mode is selected, you will see contu on '**LED Display**'.
  - 3.2 If the **Timer** mode is selected, you will see the previous setting value on '**LED Display**'.
    - 3.2.1 Press the '**Set**' key to select the digit (hour or min.)
    - 3.2.2 Press the '**Adj.**' key to adjust that digit to the required scale.
    - 3.2.3 After all digits are setting well, please wait for 2 seconds, the time value will be stored into memory.
4. Setting speed: Press the '**Start / Stop**' key to start operation. Then, turn the '**Speed control knob**' to the required speed value and the speed value will be shown on the '**LED Display**' at the same time.
5. During operating, users can press the 'Display' key to view the remaining time. The remaining time will be shown on the '**LED Display**' for about 5 seconds and then the current speed value will be shown again.
6. During operation, you may press the '**Start/stop**' key to stop operating anytime.

## Remarks:

1. '**Display (rpm/time)**' key is workable only under **Timer** mode.
2. During operation, if you want to change the operation mode (Timer or Cont. mode), users have to press the '**Star/Stop**' key first and then press '**Timer / Cont.**' key to change the operation mode as per your request.

# Service Manual for Digital Rotator

## Troubleshooting Guide

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

| Trouble                                | Cause   | Remedy                               |
|--|---|--------------------------------------|
| Instrument inoperative                 | Power cord not connected to outlet.                   | Plug in the power cord.              |
|  | Dead power output.                                    | Change to different output.          |
|  | Fuse blown.   | Change a new fuse.                   |
|  | Defective electronic component.                       | Contact your distributor for repair. |
| Platform doesn't rotate                | Power switch is at "O" position.                      | Switch on the power at "I" position. |
|  | Start/Stop key is not pressed.                        | Press the Start/Stop key.            |
|  | The connection of platform and the motor is not well. | Contact your distributor for repair. |
|  | PC board is broken.                                   | Contact your distributor for repair. |
| Platform keep rotating when time is up | PC board is broken.                                   | Contact your distributor for repair. |
| Power switch can not light up          | The power switch is broken.                           | Contact your distributor for repair. |
| Speed is abnormal                      | PC board is broken.                                   | Contact your distributor for repair. |
| No signal on LED DISPLAY               | PC board is broken.                                   | Contact your distributor for repair. |

## Circuit Diagram

