

## NSD POWER®

PB-188ML PB-188MLC

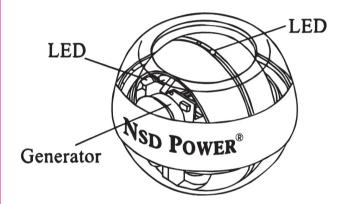
# PB-188ML: **NSD POWER** multi-light ball, with a generator and a speed detector inside the sphere

It contains neither chemical substances nor batteries. The light comes from an electric generator and high-speed spinning of the inner rotor. The sphere, revolutionarily engineered, turns the torsion of a user's wrist into electric currents, which make the ball glitter.

The PB-188ML multi-light ball has been built in a speed detector and offers three colors while the users speed up the ball --- red, purple and blue.

PB-188ML is suitable for both recreation and competition.

#### **PB - 188ML:**



#### **Important Notice:**

- \* All the products in the **NSD POWER**® 188 Series are made of biodegradable materials and conformed to CE and RoHS regulations. Please keep them away from the sunshine.
- \* Do not touch the ball when its inner rotor is activating.
- \* Please keep the interior of the sphere clean and away from liquid and grease.
- \* Avoid touching the inner rotor with any hard object.
- \* Do not drop the ball, or it will damage the internal structure and components.
- \* Do not over-exercise your forearms by using **NSD POWER**®.
- **\*** Getting a balanced use of both forearms is recommended.
- \* When the inner rotor spins up to 8,000 RPM, please have a tight grip on the ball so as to keep it from dropping and avoid a shortened life.
- \* NSD POWER® is not suitable for children under 14.

#### **To Start (using starting cord)**

- 1. Insert the plastic tip of the starting cord into the hole in the inner rotor.
- 2. Wind the starting cord up in the direction of the arrow, and pull the cord away from the ball. (Fig. A)

#### To Start (in general way)

Hold the ball in on hand, and use the other hand to spin the inner rotor to rotation. (Fig. B)

#### To Speed Up

Once the inner rotor starts to revolve, twist your wrist clockwise or counter clockwise to speed up. Once the spinning speeds p, you can start to exercise your wrist and forearm. (Fig. C)

#### NSD POWER®



No.2004100675 No.2008100053 No.2007100698 No.2005100371 No.2006100976 No.2007100698

#### **China Patents**

| Jiiiia i accircs  |                   |                   |
|-------------------|-------------------|-------------------|
| No.02253289.7     | No.02285307.3     | No.200520027599.4 |
| No.3258043.6      | No.200320112335.X | No.200520130995.X |
| No.200320112334.5 | No.200320112356.1 | No.200620027443.0 |
| No.02233006.2     | No.200420029473.6 |                   |
|                   |                   |                   |

#### **France Patents**

No.

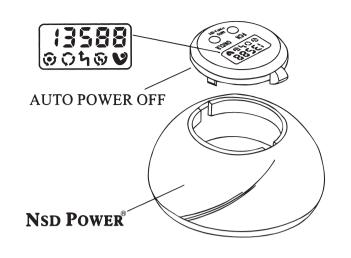
| .2873301 | No.2897271 | No.2909890 |
|----------|------------|------------|
| .2897270 | No.2912924 | No.2904230 |

#### NSD POWER digital counter

It enables users to see the process of their muscle training. It will show immediate scores for users' reference.

#### **Functions:**

- a. To count rotation speed of the inner rotor.The counting unit is RPM (revolutions per minute).
- b. To record the currently highest RPM and the historically highest RPM.
- c. With three modes of physical strength index: revolutions/ 30 seconds, revolutions/ 60 seconds, and revolutions/ 90 seconds.



#### Counting of revolutions: ( ② ):

- a. Press the "FCN" button on the digital counter, and then the counting mode of revolutions starts.
- b. The digital counter can save scores of rotation in memory.
- c. Press the "CLR" button on the digital counter to clear off revolution record.
- ★ Please note: When your muscle force is so powerful as to reach speeds in excess of 18,000 RPM, the digital counter will stop working.

#### Counting of Current RPM ( 🗘 ):

Press the "FCN" button on the digital counter, and the counting mode of real time revolutions starts.

Then the current RPM is displayed.

### Historically highest score & Currently highest score ( $\frac{1}{2}$ )/( $\frac{1}{2}$ ):

- a. Press the "FCN" button to start the "historically highest RPM & currently highest RPM" mode.
- b. When the rotor is not spinning, the digital counter displays the historically highest score. Press the "CLR" button to clear off the number shown.
- c. When the inner rotor is rotating, the currently highest score is displayed.
- d. When the current score is higher than the historical record, the display on the digital counter will flash. The new score will automatically overwrite the old high score.
- e. For the currently highest score, press the "CLR" or "FCN" button during rotation of the inner rotor or when the digital counter is off.

#### Physical Strength Index ( **②** ):

There are three modes of index: 30 seconds/ revolutions, 60 seconds/ revolutions, and 90 seconds/ revolutions.

a. Press the "FCN" button to start the modes of physical strength index.

- b. The mode of revolutions/30 seconds shows up first. Press the "CLR" button while the rotor is not in motion, and the mode of revolutions/60 seconds shows up. With one more press of the "CLR" button, the mode of revolutions/90 seconds will show up.
- c. When the inner rotor is set in motion, the number of revolutions will be recorded. When speeding-up comes to a pause, the digital counter will display the number in the following 5 to 8 seconds. The digital counter continues to record the score till the rotation comes to a total stop. And the digital counter stops counting, too.
- d. Press the "CLR" button to restart the counting.
- e. If no button on the digital counter is pressed, the counter will be automatically off in 40 seconds.
- f. Press the "FCN" button while the digital counter is working in order to renew the score.

### g. If the inner rotor stops spinning for 40 seconds, the digital counter will be automatically off except that the physical strength index is still on.

#### **Germany Patents**

| Nr.20215476.9 | Nr.20212121.6     | Nr.202005017793.8 |
|---------------|-------------------|-------------------|
| Nr.20311474.4 | Nr.20320189.2     | Nr.202006014737.3 |
| Nr.20319784.4 | Nr.202004017469.3 | Nr.202007010179.1 |
| Nr.20201408.8 | Nr.202004016651.8 |                   |

#### Japan Patents

| No.3146882 | No.3118250 | No.3127440 |
|------------|------------|------------|
| No.3106852 | No.3127943 |            |

#### **Korea Patents**

No.373474 No. 405233 No. 433558

#### **Netherlands Patents**

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|-------------------------|------------|------------|--|
| No.1027458              | No.1030116 | No.1033500 |  |
| No.1026674              | No.1033359 | No.1033367 |  |
| No.1030115              |            |            |  |

#### Russia Patent

No.71795

#### **South African Patent**

No.2007/06366

#### **Taiwan Patents**

| No.135058   | No. M 240246 | No.M 289072  |
|-------------|--------------|--------------|
| No.143917   | No. M 240250 | No. M 294341 |
| No.192202   | No. M 240251 | No. M 308777 |
| No.210444   | No. M 242242 | No. M350393  |
| No. M244112 | No. M 259618 |              |

#### U.S.A. Patents

| No.7,033,304 | No.7,101,315 | No.7,318,790 |
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| No.7,086,990 | No.7,452,307 | No.7,381,155 |
| No.6,623,405 | No.7,077,786 | No.5,800,311 |
| No.6,942,601 |              |              |

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