

http://www.nsd.com.tw
 Taiwan Patent No.: 135058
 U.S.A. Patent No.: 5800311
 Germany Patent No.: 20201408.8
 and other patents.



Made in Taiwan

NSD POWER®

PB-188 L

PB-188 LC

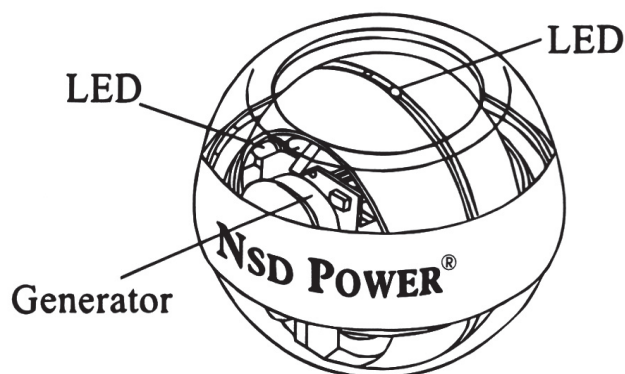
PB-188L : NSD POWER® regular light ball, with a generator inside the sphere

It contains neither chemical substances nor batteries. The light electricity comes from the high-speed spinning of the inner rotor. The magnetic field will transfer the kinetic energy into electrical energy, making the gyroscope glitter. There are six LED light bulbs in PB-188L & PB-188LC; therefore, when the gyroscope is exercised at high speed, it will be turned into a shining luminous body. It's an amazing sight for users to operate it himself/ herself.

The PB-188L magic light balls offer customers four colors of choices — Amber Light, Green Light, Blue Light, and White Light.

The darker the setting is, the more beauty PB-188L exhibits.

PB – 188L:



Important Notes

- * 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 the starting cord)

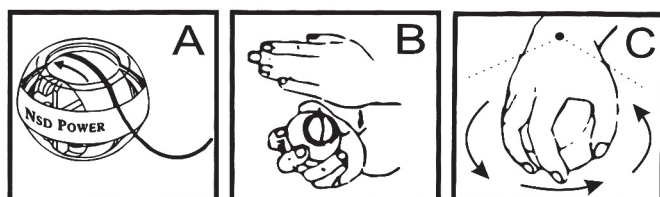
1. Insert the plastic tip of the starting cord into the hole in the inner rotor.
2. Wind the starting cord up in the track in the middle of the inner rotor in any direction with two or three circles, then use one hand to hold the ball and the other hand to grab another side of the starting cord, and depart them into different directions. (Fig. A)
3. Spin your wrist clockwise to follow the inner rotor.

To Start (using the bare hands)

1. Hold the gyroscope with one hand and turn the inner rotor to side. (Please turn the track of the rotor perpendicularly.)
2. Use the other hand as a knife to slice the inner rotor perpendicularly and rapidly twice or three times. (Fig B)
3. Spin your wrist clockwise to follow the inner rotor.

To Speed Up

Once the inner rotor starts to revolve, spin your wrist clockwise to speed up. (Fig C)



NSD POWER®

Australia Patents

No.2004100675
 No.2005100371

No.2008100053
 No.2006100976

No.2007100698

China Patents

No.02253289.7
 No.3258043.6
 No.200320112334.5
 No.02233006.2

No.02285307.3
 No.200320112335.X
 No.200320112356.1
 No.200420029473.6

No.200520027599.4
 No.200520130995.X
 No.200620027443.0

France Patents

No.2873301
 No.2897270

No.2897271
 No.2912924

No.2909890
 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. Counting of revolutions:
To measure the revolutions you use Powerball in a period.
- (⊙) b. Counting of Current RPM:
To show the current RPM (revolutions per minute) when you are exercising.
- (⌚) (⊗) c. Historically highest score & Currently highest score.
- (♥) d. Physical Strength Index:
To show your explosive force in 30, 60 or 90 seconds.

★Please note: The maximum speed of the digital counter is 18,000 RPM.

Counting of revolutions: (⊗)

- 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 revolutions in memory.
- c. Press the “CLR” button on the digital counter to clear off revolution record.
- d. The unit of digit number: 1 : 100 revolutions
- e. Users can set up goal revolutions to achieve in a certain period of time. Thereby, users can get better and better statistics of exercising

Counting of Current RPM: (⊙)

- a. Press the “FCN” button on the digital counter, and then the counting mode of current revolutions starts. Then the current RPM is displayed.
- e. For the currently highest score, if you press the “CLR” button during rotation of the inner rotor, only the currently highest score record will be cleared off.
- f. For the historically highest score, if you press the “CLR” button twice when the inner rotor is still, the historically highest score record will be cleared off.

Physical Strength Index (♥)

There are three modes of index: 30-second revolutions, 60-second revolutions, and 90-second revolutions.

- a. Press the “FCN” button to start the modes of physical strength index.
- b. The mode of 30-second revolutions shows up first. Press the “CLR” button while the ball is not in motion, and then the mode of 60-second revolutions will show up. With one more press of the “CLR” button, the mode of 90-second revolutions will appear.

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

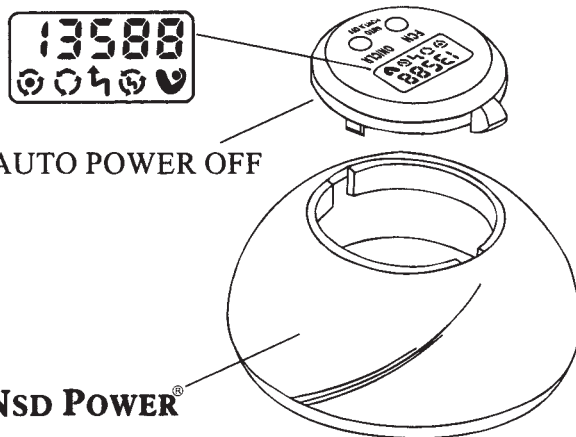
No.3146882	No.3118250	No.3127440
No.3106852	No.3127943	

Korea Patents

No.373474	No. 405233	No. 433558
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Netherlands Patents

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



- b. This function is very exciting for users. The digit monitor feels like the dashboard of a roadster. The more power you input, the more feedback you get from the gyroscope.

Historically highest score & Currently highest score (⌚)/(⊗)

- a. Press the “FCN” button to start the “historically highest RPM & currently highest RPM” mode.
- b. When the ball 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. Then the historical record will be renewed automatically by the current higher score.
- c. The function is to show how many turns you can make within 30, 60 or 90 seconds. The LCD monitor will show the number of the turns when the seconds start to be counted down. Then you may know your explosive force during the certain period of time.
- d. Press the “CLR” button to restart the counting.
- e. If no button on the digital counter is pressed, the counter will automatically be off in 40 seconds.
- f. Press the “CLR” button when the digital counter is working, and the score can be renewed.
- g. If the inner rotor has stopped spinning for 40 seconds, the digital counter will automatically be off except that the physical strength index is still on.
- h. It's the fancy function that users can test their explosive force within short time. For example, an athlete can make a 100-meter dash within ten seconds. Users can get different fun in this function.

Russia Patent

No.71795

South Africa 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
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		