



# QUICK START GUIDE

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This Guide is for the Zone DPMX Dual power meter and Zone DPMX Single power meter.

Compatible with Speedplay® Zero, X Series, Ultra Light Action and Pavé pedals and cleats.



[www.brimbrothers.com/support/](http://www.brimbrothers.com/support/)

For more information and how-to videos visit

[www.brimbrothers.com/support/](http://www.brimbrothers.com/support/)

## REQUIREMENTS

The following items are required but they are not supplied with the Zone DPMX power meter.

- Speedplay® Zero, X Series, Ultra Light Action or Pavé pedals.
- Speedplay® V.2 cleats, with screws and V.2 plastic wedges.
- Compatible cycling shoes. They must have the 3-hole cleat fixing

pattern. They must have at least one closing strap with a maximum width of 25 mm (1 inch), located near the toe of your shoe.

- A bicycle computer or other receiver compatible with ANT+™ power and cadence.



READ THESE  
INSTRUCTIONS  
ALL THE WAY  
THROUGH BEFORE  
YOU START

## INSTALLATION

### Prepare your shoes

Remove any cleats that are attached to your shoes. If you were already using compatible Speedplay V.2 cleats and they are in good condition then you can refit them with the Zone DPMX power meter.

Your shoes must be clean and dry on the soles where the cleats are fitted.

### Prepare your cleats

Ensure that you have all the parts of

the Speedplay cleats, including:

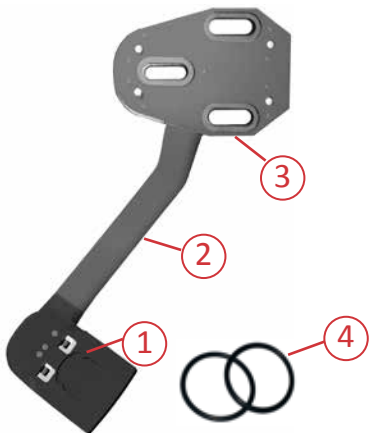
- 4 small Speedplay screws (M4).
- 3 larger Speedplay screws (M5).
- Speedplay V.2 plastic wedges, in different sizes.

The black plastic adapter plate that came with the Speedplay cleats is not needed because it will be replaced by the force sensor plate of the Zone DPMX power meter.

### **Pre-check the fit**

Ensure that the power meter will fit your shoes:

- Check that the soles of your shoes have the standard 3-hole bolt pattern.
- Check that the base unit ① can be fixed securely to a strap on top of your shoe using the rubber rings ④. Use the strap nearest the front of your shoe.
- Check that the flat cable ② between the sensor plate ③ and the base unit ① will lie against



the side of your shoe without stretching or twisting.

## Install

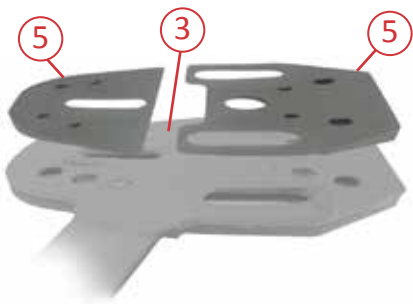
Zone DPMX Dual: Do the following for your left and right shoes in turn.

Zone DPMX Single: Do the following for your left shoe only.

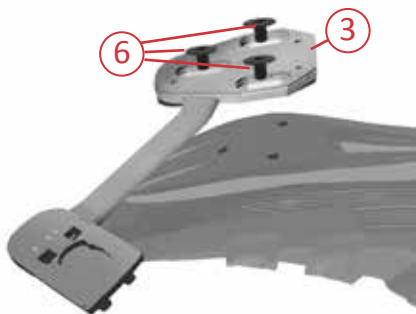
**Note:** The Zone DPMX sensor plate (3) and base units (1) are marked L for the left shoe and R for the right shoe. They will not work correctly if fitted to the wrong shoes.

1. Attach 2 of the rubber rings (4) to the hooks on the bottom of the base unit (1) .
2. Choose front and rear Speedplay V.2 wedges (5) and click them into the sensor plate (3). Speedplay provide different sizes of wedges, so choose the size that gives the best possible fit to the curve of the sole of your shoes. Refer to the Speedplay cleat fitting instructions for more information.

**Important:** You must choose the wedges that keep the sensor plate as flat as possible on the soles of your shoes.

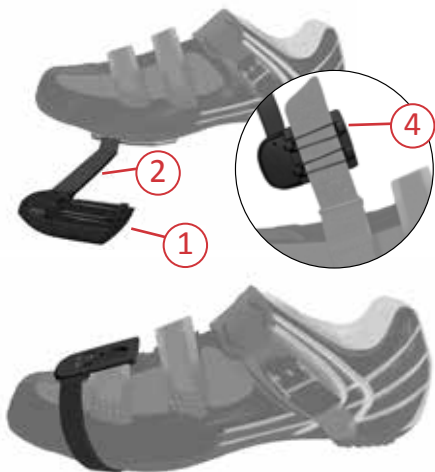


3. Choose the appropriate length of Speedplay M5 screws ⑥ for attaching the sensor plate ③ to your shoes. Refer to the Speedplay cleat fitting instructions for more information.
4. Loosely attach the sensor plate to the sole of the shoe using 3 Speedplay M5 screws. Use the correct sensor plate on the correct shoe. The sensor plates are marked R for right and L for left. They must be used on the correct shoes.
5. Bend the flat cable ② around the side of your shoe, so that the Zone DPMX base unit ① is at a



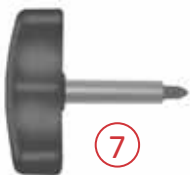
strap on top of your shoe. Use the flat plastic strip supplied to help you insert the strap of your shoe into the rubber rings ④ under the base unit.

6. Position the base unit ① on the shoe strap so that the cable ② lies flat against the side of your shoe.
7. Underneath your shoe, slide the sensor plate ③ forward or backwards on the sole of your



shoe to the position that you require.

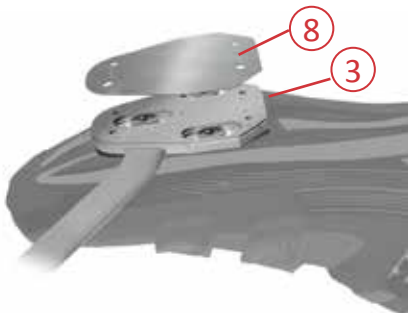
8. Tighten each of the 3 M5 screws ⑥ just enough to stop the sensor plate ③ moving on your shoes.
9. Using the torque screwdriver supplied ⑦, tighten each of the 3 M5 screws ⑥ another half turn.



10. Using the torque screwdriver ⑦, tighten each of the 3 M5 screws ⑥ until the ratchet in the torque screwdriver clicks and prevents you from tightening them any further (2.5 Nm).

**!** **Important:** Use only the torque screwdriver supplied to tighten the screws. Over tightening will cause permanent damage to the sensor plate.

11. Place the thin steel protector plate ⑧ on top of the red aluminium sensor plate ③.

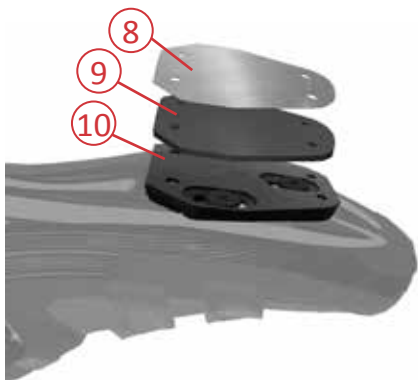


12. Attach the other parts of the Speedplay cleats to the Zone DPMX sensor plate ③ using the four M4 screws that came with the cleats. Follow the Speedplay fitting instructions to do this. The Speedplay black plastic adapter plate is not needed with the Zone DPMX power meter.

### **Zone DPMX Single only**

The Zone DPMX sensor plate ③ is 2.0 mm (0.08 inch) thicker than the Speedplay adapter plate ⑩ that it

replaces. To ensure that your stack height is the same on both pedals you should add the special 2.0 mm flat plastic shim ⑨ to the Speedplay cleat fitting on your right shoe.



1. On your right shoe, fix the Speedplay black plastic adapter plate ⑩ to your shoe as normal.
2. Place the 2.0 mm plastic shim ⑨ on top of the adapter plate ⑩, and place the thin metal protector plate ⑧ on top of that.
3. Follow the Speedplay instructions to attach the rest of the cleat.

## BEFORE FIRST USE

### Charge the pods

The charging dock ⑫ can be powered by the USB charger, or by a USB port of a PC. The dock can be used to charge one or two pods ⑪ at the same time, and they can be inserted on either side. Insert the pods ⑪ by twisting them clockwise.



The indicators at the front of the dock ⑫ have the following meanings:

- Blue: The dock has power.
- Yellow: The pod on that side is charging.
- Green: The pod on that side is charged.

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It takes up to 2 hours to recharge a pod from empty. A fully charged battery gives up to 15 hours of use.

If the pod's blue LED remains on when it is removed from the dock, briefly press the bump on top of the pod to turn it off.

### **Check the pod battery state**

Check the battery state of a pod by briefly pressing on the bump on top of the pod to turn it on. You can do this at any time whether the pod is inserted into a base unit on your shoe or not.

If the pod is in a base when you turn it on it will give a blue flash followed by up to 5 short blue flashes. If the pod is not in a base it will give a red flash followed by up to 5 short blue flashes. The blue flashes indicate the operation time remaining.

**5 flashes:** 10 to 15 hours.

**4 flashes:** 6 to 10 hours.

**3 flashes:** 2 to 6 hours.

**2 flashes:** Up to 2 hours.

## Fit the pods and turn them on

1. Fit each pod ⑪ into the base unit ① on top of a shoe. Twist it clockwise until it clicks fully into position. If you have the Zone DPMX Dual you can put either pod on either shoe.
2. Turn on each pod ⑪ by pressing the bump on the top briefly. If everything is ok you will see a single blue flash in the pod, followed by a sequence of short blue flashes to indicate the state of the battery. Then there will be a blue flash every 2½ seconds to let you know it is turned on.
3. If you turn on the pod and you see a red flash, it means that the pod is not properly inserted into the base unit and it will refuse to operate. Remove the pod from the base unit, re-insert it and try to turn it on again.
4. You can turn the pod off at any time by briefly pressing the bump on top again. It will give one red flash to indicate it is turning off.

## Calibrate the shoe position

Before your first use of the Zone DPMX power meter you should calibrate its position on your shoes. If you do not do this the power meter may not measure accurately.

Repeat this calibration if the power meter is moved to a new pair of shoes, or if the angle or position of the base unit on your shoe changes.

If you have a Zone DPMX Dual this calibration procedure must be done separately for both shoes.

1. Insert the pod ⑪ into the base ① and turn it on.
2. Place the shoe on a table or any horizontal flat surface and hold the shoe so that the Speedplay



cleat is flat on the surface. In this position the heel of your shoe will be up off the surface.

3. Hold the shoe still and tap sharply 3 times with the tip your finger on the top of the pod ⑪ to tell it to calibrate itself.

If the calibration is successful you will see 3 quick blue flashes. No flashes or 3 red flashes indicates that the calibration was not successful. Possible reasons for unsuccessful calibration include:

- The shoe was moving too much during the 3 taps. It must be held still before and during the 3 taps.
- The 3 taps were not sharp enough. Try using a hard tap with the tip of a fingernail. It's ok for the pod to move slightly when you tap it.
- The 3 taps were too slow. They should be completed within about 1½ seconds.

- The 3 taps were too fast. They should take longer than about a  $\frac{1}{4}$  of a second.

## **Pair the power meter with your ANT+ display**

This only needs to be done once for each ANT+ display that you want to use.

1. Take note of the ANT+ ID number on the label on the bottom of your pods ⑪.
2. Insert the pods into the base units ① on your shoes and turn them on.
3. Ensure your shoes (with pods) are within 3 metres (10 feet) of your ANT+ display, and that there is no other ANT+ power meter within 20 metres (65 feet).
4. Use the power meter pairing function on your ANT+ display device. Your display device may allow you to check or to enter the ANT+ ID number of the power meter.

## Set crank length

You must tell your Zone DPMX power meter what crank length you are using. When your Zone DPMX leaves the factory it is configured for crank length 172.5 mm.

There are two ways to check and set the crank length. You can use the Zone Controller software on a PC, or you can use the ANT+ crank length feature if your ANT+ display device supports it.

To check and set the crank length using **Zone Controller** follow these steps:

1. Download the Zone Controller software from [www.brimbrothers.com/support/](http://www.brimbrothers.com/support/) and install it on your PC.
2. Connect your charging dock ⑫ to a USB port on your PC, and insert the pods ⑪ into the charging dock.
3. Run the Zone Controller software on your PC. Select the configuration function, and

follow the instructions to tell the pods what crank length you are using.

To check and set the crank length using your **ANT+ display device** follow these steps:

1. Insert your pods ⑪ into the bases ① and turn them on.
2. Turn on your ANT+ display device, and make sure it is paired with your Zone DPMX power meter.
3. On your ANT+ display device, use the functions for checking and setting crank length on a power meter. Read the instructions for the device to discover how to do that.

**Note:** Not all ANT+ devices that can receive from power meters also support setting crank length.

## EACH USE

### Before each use

1. Check the battery state in each pod ⑪. Charge them if required.

2. Set the crank length stored in the pods ⑪ if it is not correct already.
3. Insert the pods ⑪ into the base units ① on your shoes, and make sure they are secure. If you have a Zone DPMX Dual the pods are identical, so either of them can go on either shoe.
4. Briefly press the bump on top of each pod ⑪ to switch it on.
  - If everything is OK it will give a single blue flash, followed by up to 5 short blue flashes to indicate battery state.
  - A red flash followed by up to 5 blue flashes and another red flash means that the pod is not correctly inserted in the base unit. Remove the pod from the base unit and reinsert it.
  - A red flash and then nothing means that the pod's battery is too low to operate. You must recharge it before using.
5. Turn on your ANT+ display and check that it is receiving the

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power and cadence values from your Zone DPMX power meter.

## During use

Click in and out of your Speedplay pedals as normal.

The power meter will continuously transmit the total power, the left/right power balance (Zone DPMX Dual only), cadence, pedal smoothness and torque effectiveness to your ANT+ display. Some ANT+ display devices may not be capable of receiving all of these types of data.

During normal operation the pod will give a single blue flash every 2½ seconds.

If the battery in either of the pods has less than 2 hours remaining it will give a double blue flash every 2½ seconds, and it will transmit a “low battery” message to your ANT+ display device.

If the battery in either of the pods becomes fully discharged the pod will switch off automatically.

If a pod detects no forward pedalling for 60 minutes, or if it detects no movement at all for 10 minutes, it will automatically turn off.

Walking on normal hard surfaces on your cleats will not damage the Zone DPMX sensor plates.

### **After use**

Turn off each pod ⑪ by pressing briefly on the bump on the top. Each pod will give a red flash before turning off.

## **CONFIGURATION AND FIRMWARE UPDATES**

You can configure your Zone DPMX power meter and you can update the firmware in it by installing and using the Zone Controller software application on your PC. Download Zone Controller from:  
[www.brimbrothers.com/support/](http://www.brimbrothers.com/support/)

## **FCC Compliance (Pod)**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID: 2ACC9001

## **FCC Compliance (Charging Dock)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not contain any user serviceable parts. Unauthorized repairs or modifications could cause permanent damage and void your warranty and your authority to operate this device under Part 15 regulations.

Quick Start Guide version 2.1 August 2016

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