

Sensor Assembly Replacement and Calibration instructions

Difficulty	Moderate
Steps	15
Time Required	20 minutes

Introduction

If you diagnose a problem with the sensor assembly, you will need to remove it and install a new one.

PW: peloton

Tools

- Phillips head Screwdriver
- 4 mm Allen Wrench
- Diagonal Pliers

Step 1 - Power down the bike

- Hold down the power button at the top of the touchscreen for about two seconds. Shut down the bike when prompted.
- Unplug the power cord from the back of the rear stabilizer.

Step 2 - Remove the water bottle holder

- Turn the resistance knob clockwise to lower the magnetic brake.
- Use a Phillips head screwdriver to remove the two screws attaching the water bottle holder to the bike frame. Set the screws aside. Pull the water bottle holder down and away from the bike and set it aside too.

Step 3 - Remove the wire bracket

- **Caution - the wire bracket has sharp edges. Handle it carefully.**
- Follow the monitor cable to the wire bracket. The wire bracket holds the cable connections in place against the inside of the front fork.
- Squeeze the sides of the bracket together to release it from the bike frame, one side at a time. Set the bracket aside.

Step 4 - Disconnect the sensor wire

- Pull the two cable connections out of the front fork and disconnect the green one.

Step 5 - Remove the front belt guard

- The front belt guard is located at the right side of the flywheel. Use the Phillips head screwdriver to remove the screw at the top of the front belt guard. Set the screw aside.
- Use your fingers to pry the plastic rivet out of the underside of the belt guard. Set the rivet and belt guard aside.

Step 6 - Detach the cadence sensor

The cadence sensor wire is clipped to the inside of the front fork. Pull the clip free of the bike frame, then remove it from the wire and set it aside.

- Follow the wire down to the cadence sensor and use a 4mm Allen wrench to remove the bolt and washer holding it in place. Set the bolt and washer aside.

Step 7 - Detach the resistance sensor

- Follow the wire that comes forward and up from the sensor assembly to locate the resistance sensor. If there is a zip tie holding the sensor in place, clip it and discard it.
- Use the Phillips head screwdriver to remove the two screws holding the resistance sensor in place. Set the screws aside.

Step 8 - Remove the sensor assembly

- Pull the cable connection marked with yellow arrows out of the hole where the two sides of the front fork meet. This is the connection that routes power to the sensor. Disconnect it.
- Inspect the cable connectors. If one of them is damaged, that could be what's causing the issue. This repair will deal with a damaged connector coming from the sensor assembly. If the other yellow connector is damaged, contact Peloton Support for additional help.

- Use the Phillips head screwdriver to remove the two bolts holding the sensor assembly in place. Remove the assembly, including both sensors, from the bike.

Step 9 - Install the new sensor assembly

- Place the flat side of the new sensor assembly against the right side of the magnetic brake. Line up the two holes in the sensor assembly with the two holes in the magnetic brake.
- Secure the sensor assembly using the Phillips head screwdriver and the two bolts you removed in the last step.

Step 10 - Attach the resistance sensor

- Depending on your bike, your resistance may be flat or attached to a double angle bracket.
- If the sensor is attached to a double angle bracket, it will attach to a mounting bracket above the magnetic brake. Position it so that the bolt holes on the two brackets line up. The sensor should sit behind the bracket and point down at the magnet directly below.
- If the sensor is flat, it will attach to a block above the magnetic brake. The dot on the sensor should face down, the bolt holes on the black and

sensor should line up, and the sensor wire should point to the right side of the bike.

Secure the sensor using a Phillips head screwdriver and the two bolts you removed in step 7.

If you have the sensor attached to a mounting bracket, zip-tie the sensor wire to the front of the bracket.

Step 11 - Attach the cadence sensor

- The remaining sensor is the cadence sensor. Attach it to the forward-facing hole at the right of the flywheel using the 4mm Allen wrench and the bolt and washer you removed in step 6.

Before you tighten the bolt, make sure the painted dot on the sensor faces the flywheel.

- Route the sensor wire under the sensor and up toward the sensor assembly. Secure it to the sensor bracket using a zip tie.
- Find the clip you removed in step 6 and add it to the wire. There is a small, round hole inside the front fork, near the sensor assembly. Insert the clip into the hole.

Step 12 - Reinstall the front belt guard

- The mounts for the front belt guard sit above and below the cadence sensor. Line the belt guard up against the right post of the front fork, making sure it doesn't pinch the cadence sensor wire.

- Secure the front belt guard to the top mount using the Phillips head screwdriver and the bolt you removed in step 5.
- Take the plastic rivet you removed in step 5 and push it into the lower hole in the front belt guard to secure it to the bottom mount.

Step 13 - Connect the remaining wires

- Connect the yellow cable connector coming from the sensor assembly to the one coming from the wiring cavity. Make sure that the arrows line up and the connectors are fully seated.
- Connect the green cable connector coming from the sensor assembly to the green connector on the monitor cable. Make sure that the arrows line up and the connectors are fully seated.
- Put the green and white cable connections in the wire bracket and place it against the inside of bike frame. Fit one side into its slot on the bike frame. Then squeeze the sides of the bracket together to fit the other side into the second slot.

Step 14 - Calibrate the new sensor

- Plug in and power on the bike.

- Tap the menu icon at the bottom right corner of the home screen and select About. Then tap the upper right corner of the About dialog ten times to open the sensor calibration routine.
- Follow along with the directions onscreen, using the separate sensor calibration instructions and the plastic calibration kit.

Step 15 - Reattach the water bottle holder