

Sensor Placement Guide

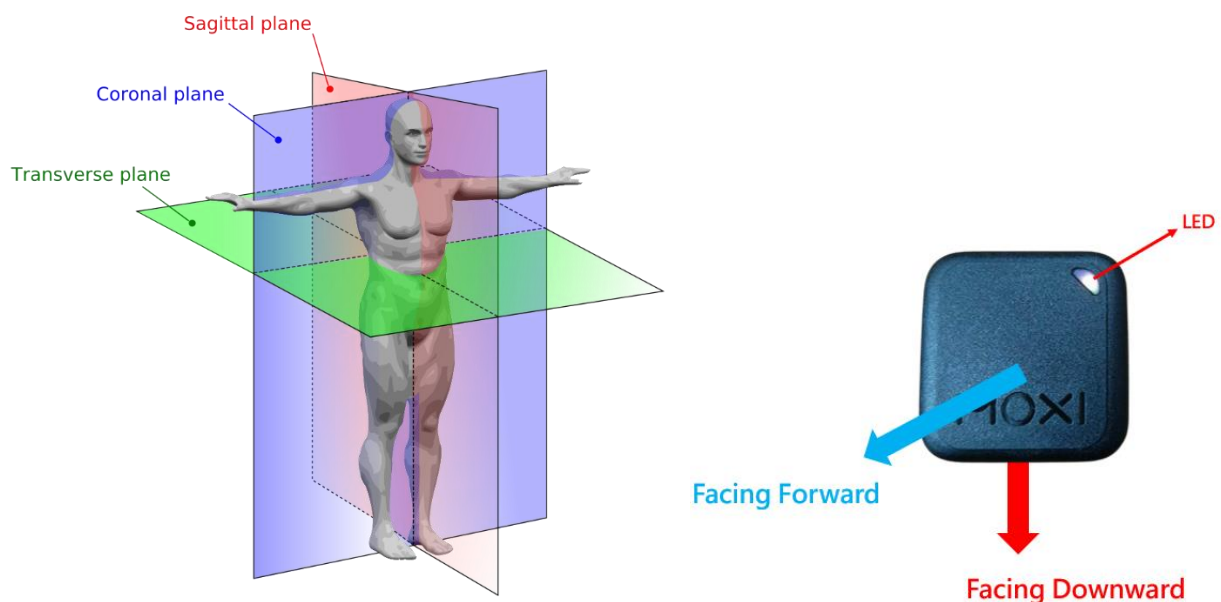
The sensors are categorized into two types placement based on their orientation relative to the body's planes. In all cases, the vertical axis of the sensor should align with the longitudinal axis of the limb segment.

1. Anterior/Posterior Placement: **Shank, Upper Back, Pelvis.**

- Orientation: The front face of the sensor should face the Sagittal Plane (Anterior or Posterior direction).

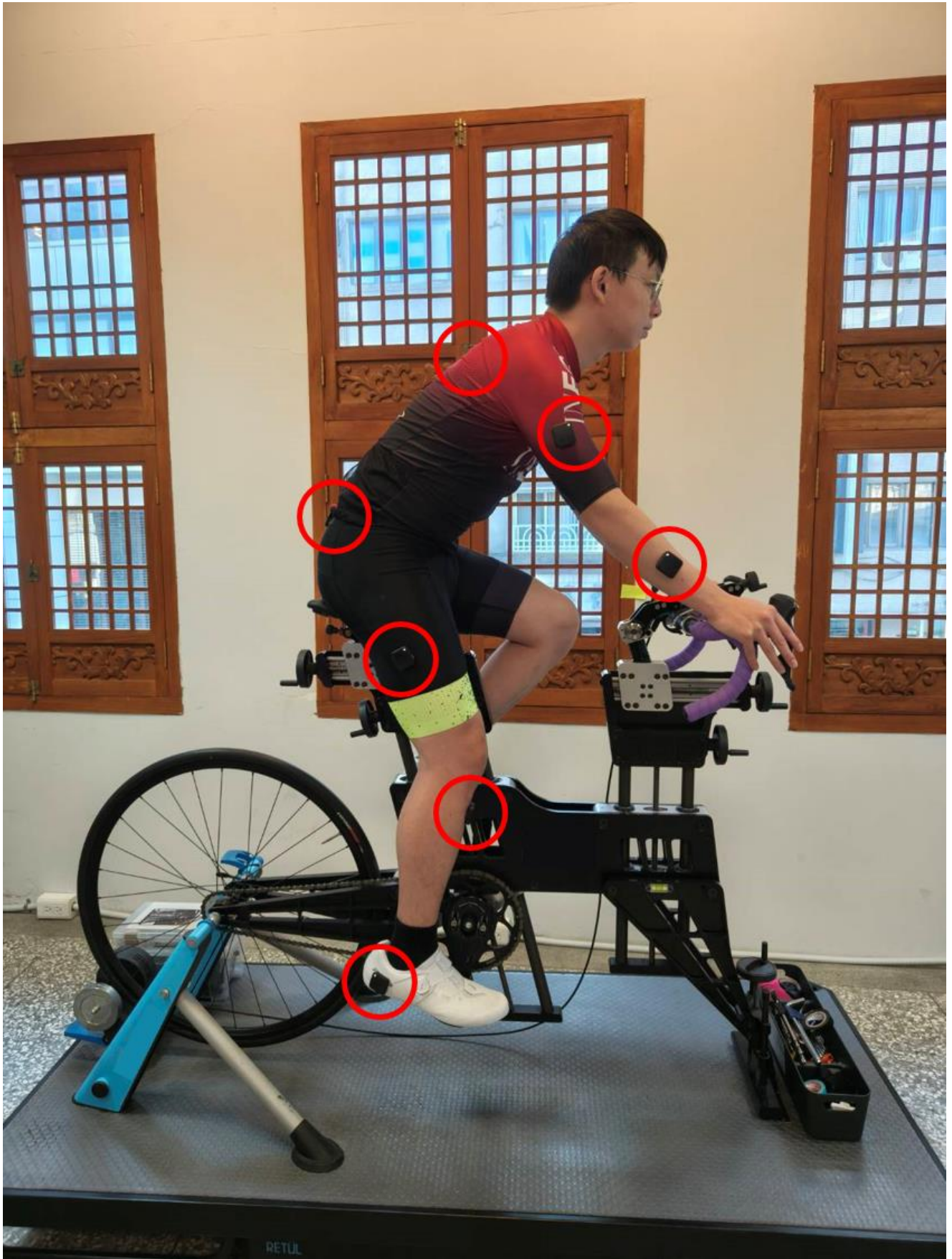
2. Lateral Placement: **Upper Arm, Forearm, Thigh, Foot.**

- Orientation: The front face of the sensor should face the Coronal Plane (Lateral direction).



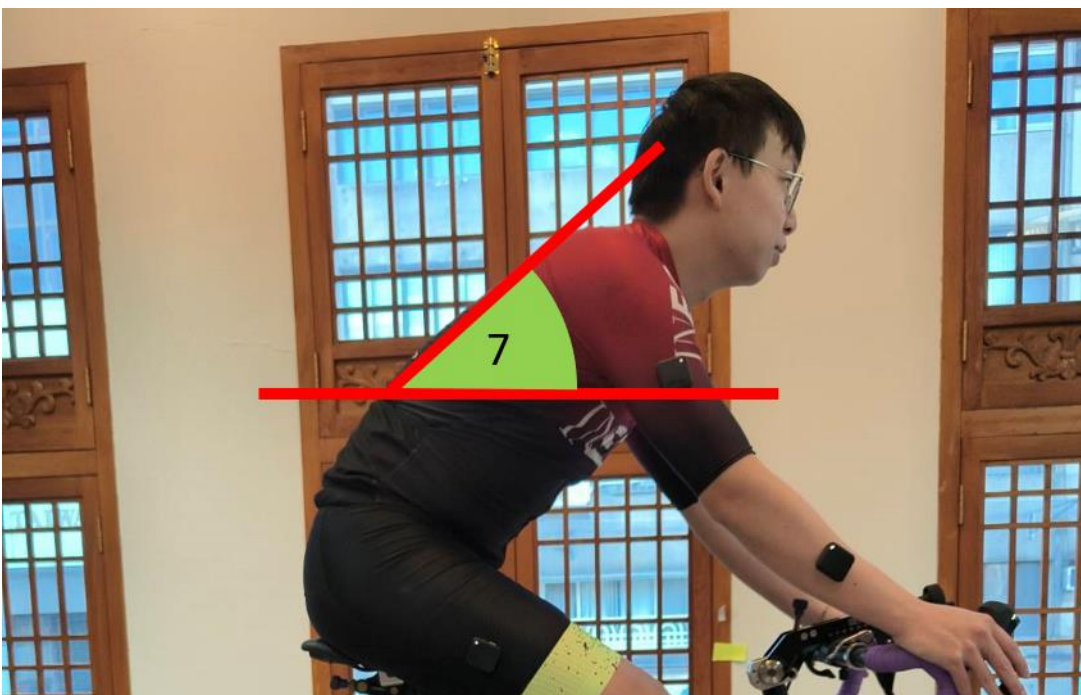
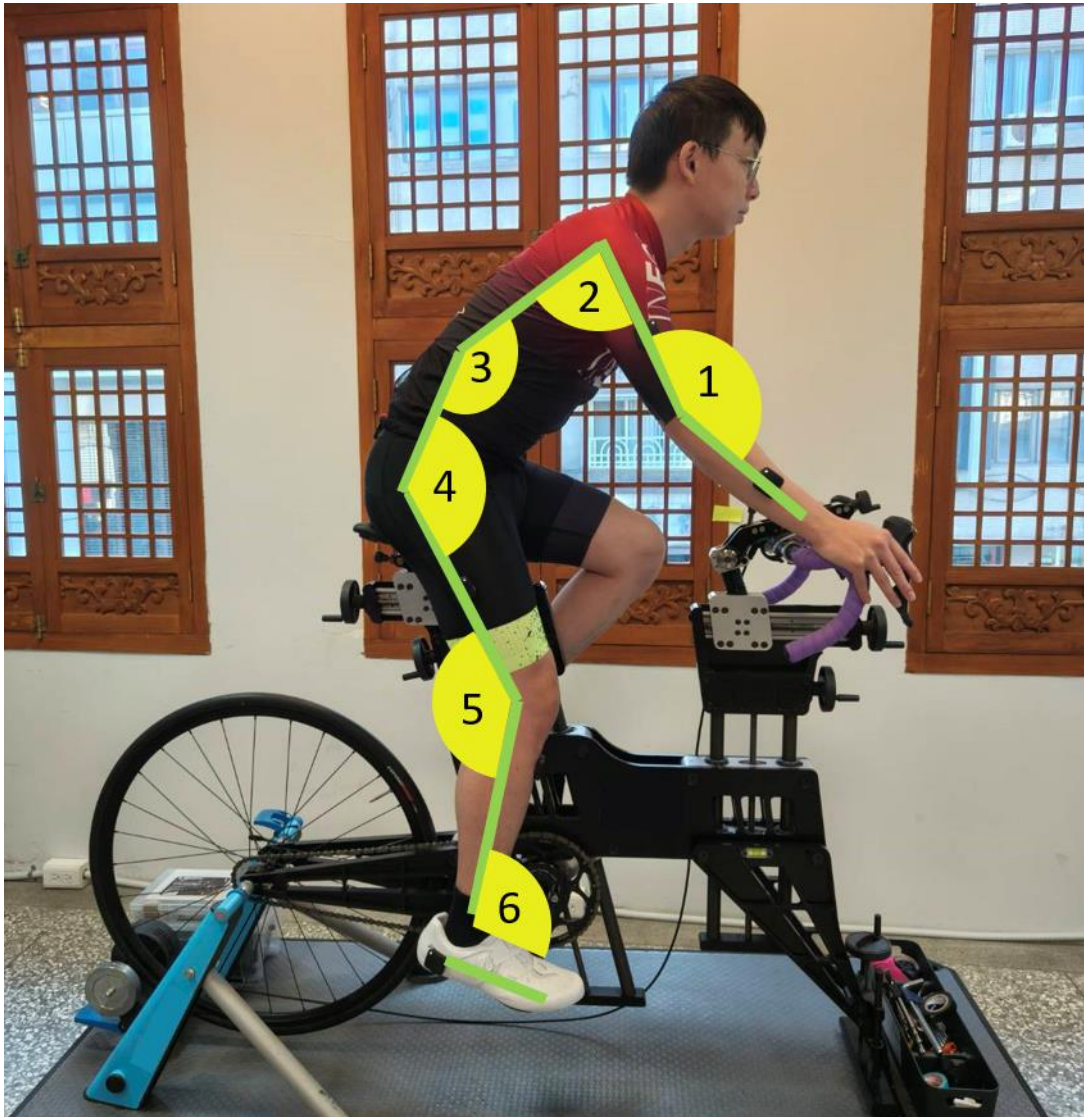
*Always ensure the sensor axis is aligned as closely as possible with the functional axis of movement for the most accurate data.

***Ensure the red arrows on both the sensor and the placement site are aligned along the body's longitudinal axis.**



Full Body Sensor Placement Diagram

Joint Angle Definitions



Torso Angle Definition

The following table defines the calculated angles for each joint:

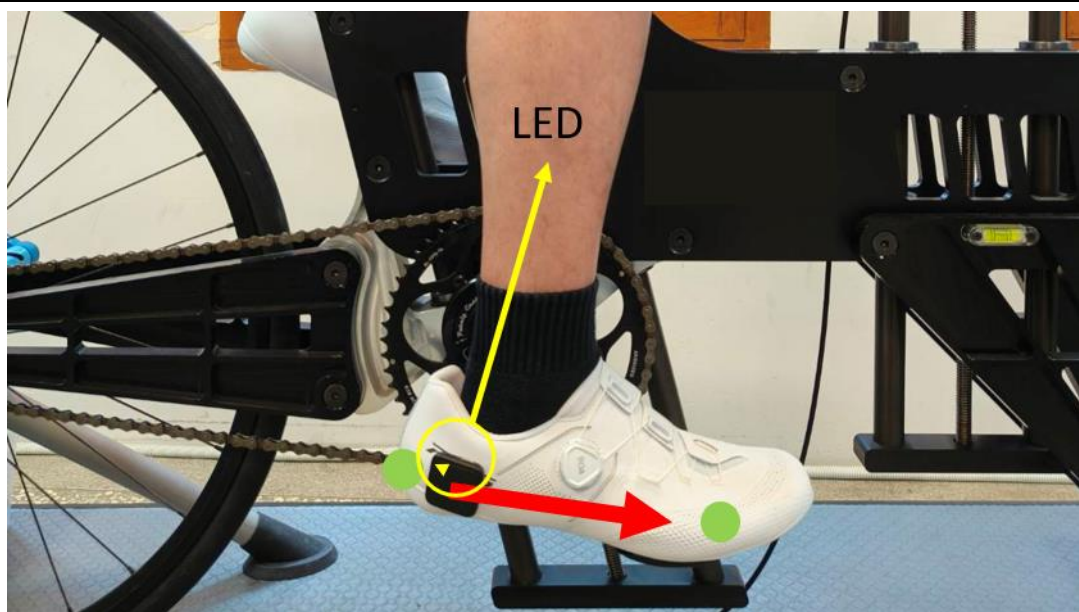
Joint	Definition
1. Elbow	The angle between the Upper Arm and Forearm.
2. Shoulder	The angle between the Upper Arm and Upper Back.
3. Torso Pelvic Curve	The angle between Upper Back and the Pelvis.
4. Hip	The angle between the Pelvis and Thigh.
5. Knee	The angle between the Thigh and Shank.
6. Ankle	The angle between the Lower Leg and Foot.
7. Torso Angle	The angle between the Upper Back and the Horizontal Plane.

Lateral Placement Details: Foot, Thigh, Upper Arm, Forearm

Segment

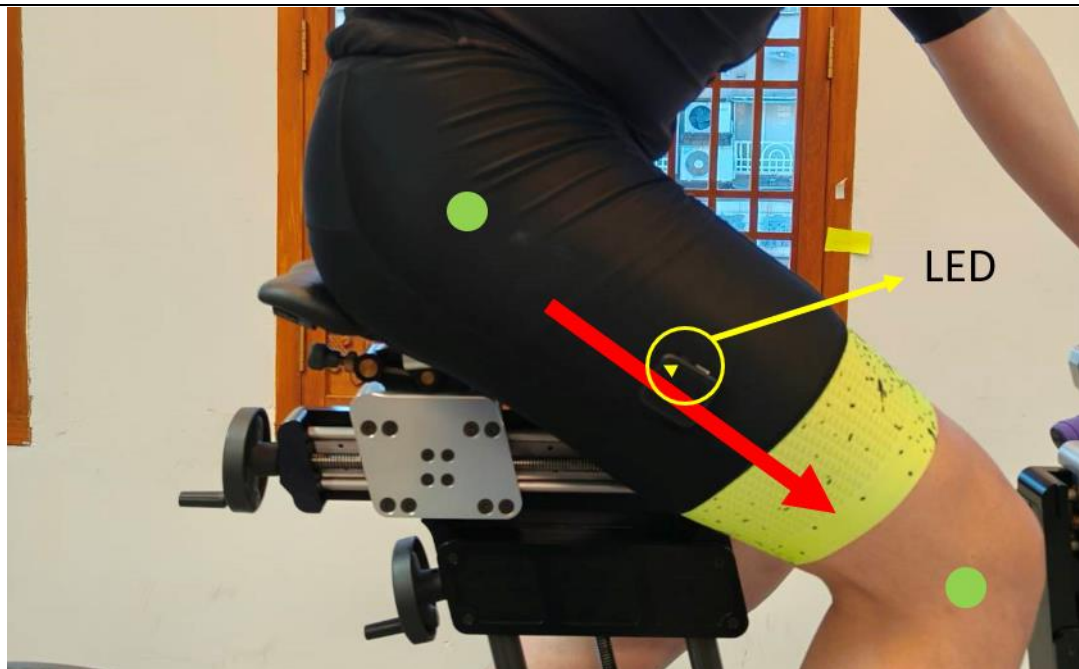
Figure

Foot



The **LED indicator** should point toward the heel. *Requirement:* Keep the sensor as level as possible with the plane formed by the heel and toes.

Thigh



The **LED indicator** points toward the **Greater Trochanter**. *Requirement:* Align the sensor along the line connecting the center of the knee joint and the Greater Trochanter.

Upper
Arm &
Forearm



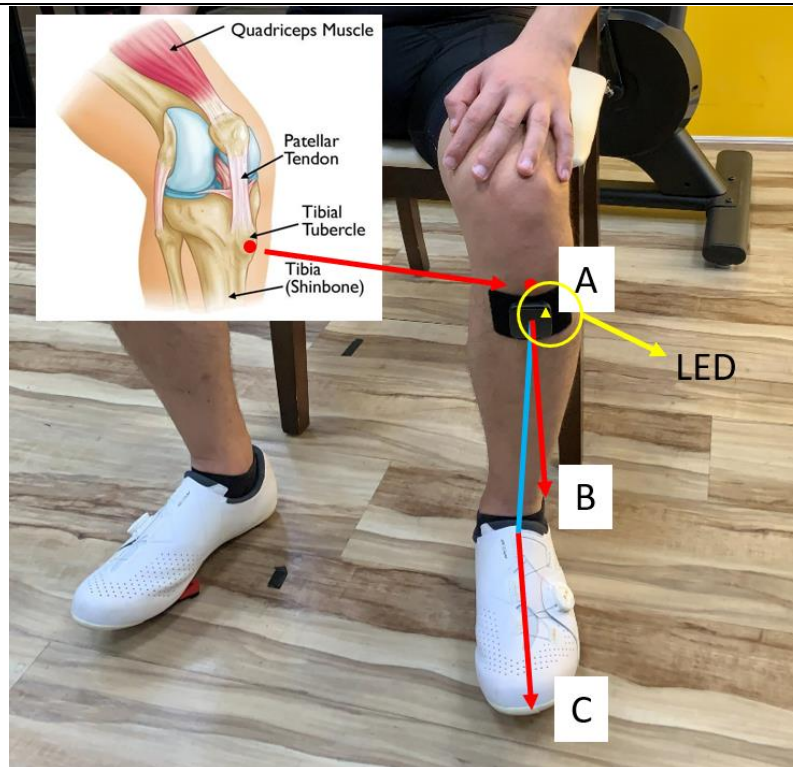
The **LED indicator** should point toward the Elbow and Shoulder joints respectively.

Requirement: Align along the lines connecting the Wrist-to-Elbow and Elbow-to-Shoulder centers.

Anterior/Posterior Placement Details: Shank, Pelvis, Upper Back

Segment

Figure

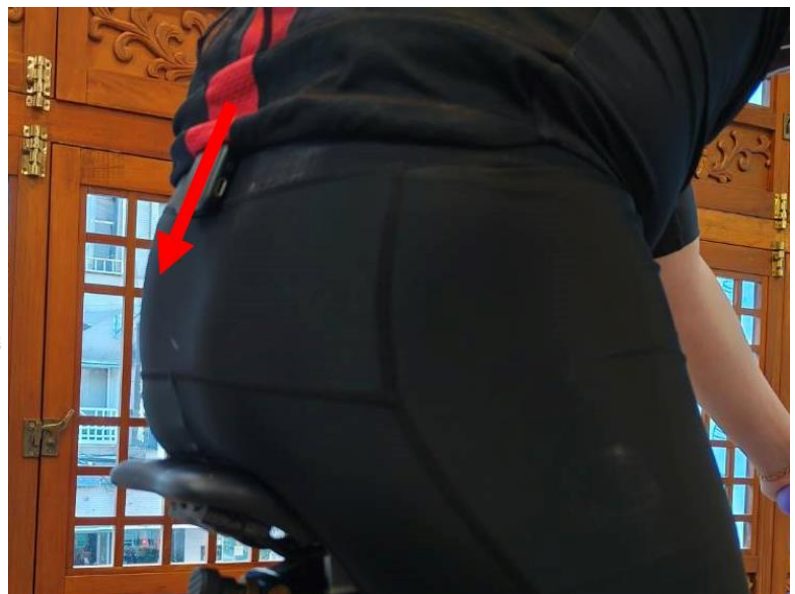
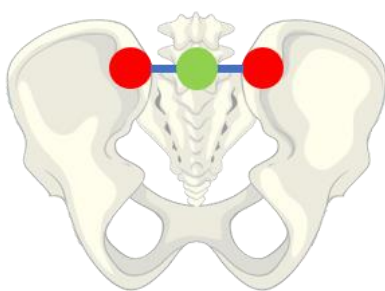


Shank



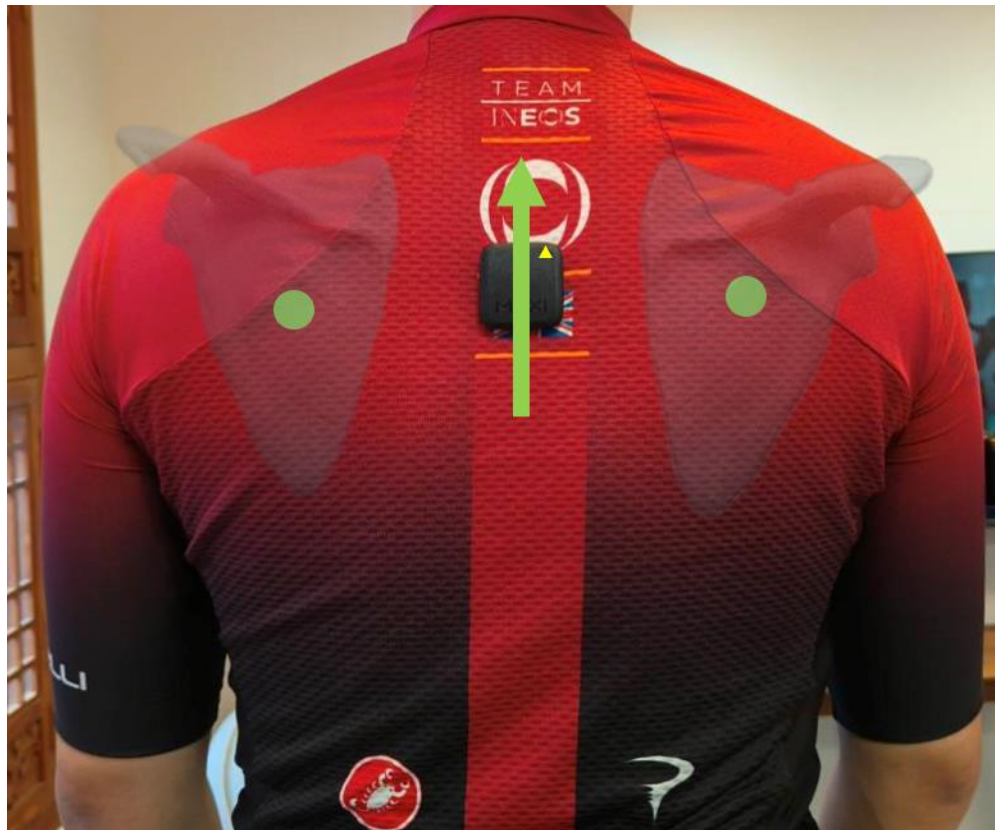
The "Moxi" logo (front face) must face forward and be placed below the Tibial Tuberosity (A point). *Requirement:* Ensure the sensor's B-axis points toward the space between the 2nd and 3rd metatarsals (C axis direction).

Pelvis



Place the sensor centered between the **PSIS** (Posterior Superior Iliac Spines), approximately at the **L5** vertebrae level. *Requirement:* The "**Moxi**" logo must face the rear (Posteriorly).

Upper
Back



Place the sensor between the shoulder blades at the level of the **T3 to T5** thoracic vertebrae. *Requirement:* The "**Moxi**" logo must face the rear (Posteriorly).
