

KeeOGO Clinician Fitting Checklist



Normal fitting procedure:

Before fitting (💡 = key point; || = parallel; A-P = anterior-posterior):

1) **Choose contact areas** (typically: medium-small-small from top down);

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1st Fit

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2) **Loosen screws** for tibial and lower thigh contact area; Adjust lower thigh **notches to 0**;

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3) Lengthen glute belt if needed;

4) **Choose belt size** and pre-install hip-hangers at 3rd line;

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While standing upright:

5) Position belt → cover iliac crests & top of pants. Tighten belt;

6) Position hip-hangers → front of clips over greater trochanter. Attach straps;

7) Attach Keeogo frame to clips;

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8) **Verify hip sensor alignment** → || to axis of rotation, same height on both sides;
Hip sensors should be **aligned with greater trochanter**;

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9) **Position knee motor** → motor axis through midline of patella (adjust using femoral shaft);
Centre of motor should be **aligned with femoral condyles**;

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10) Verify femoral shaft height → same length on both sides (unless known anatomical issue);

11) **Verify frame alignment** → || to femur from front and side view (no int/external rotation);

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12) Attach clips on contact areas; Tighten Velcro® straps (keep them aligned);

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13) Adjust upper thigh contact area position if needed;

14) Tighten screws on tibial & lower thigh contact areas (angles should be ideal for comfort/fit);

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15) Slightly tighten glute belt if needed;

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16) Clip control unit and battery to waist belt;

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While sitting at 90°:

17) **Adjust lower thigh notches** → correct A-P position of motor. Contact area flush w/ thigh;

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18) **Verify θ between femoral shaft & hip-hanger $\approx 90^\circ$** ; Else: adjust belt & fem. shaft height;

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19) Verify motor & knee axis alignment → || (not rotated inwards/outwards);

20) **Verify tibial contact area fit** → conforms to leg (no gap), starts under patellar tendon;

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→ Continue to **Final fitting check before tuning** on page 3

Adapted procedure for fitting in a seated position:

Before fitting (💡 = key point; || = parallel; A-P = anterior-posterior):

	1 st Fit	Pre-fit
1) Choose contact areas (typically: medium-small-small from top down);	☐	
2) Loosen screws for tibial and lower thigh contact area;	☐	
3) Lengthen glute belt if needed;		
4) Choose belt size and pre-install hip-hangers at 3 rd line;		
5) If possible while standing, position belt → cover iliac crests & top of pants. Tighten belt;	☐	
6) Position hip-hangers → front of clips over greater trochanter. Attach straps;		

While sitting at 90°:

7) Attach Keeogo frame to clips; position contact areas on legs		
8) Verify θ between femoral shaft & hip-hanger $\approx 90^\circ$; <i>Else</i> : adjust belt & fem. shaft height;	☐	
9) Verify motor & knee axis alignment → (not rotated inwards/outwards);		
10) Position centre of knee motor → slightly higher than quadriceps tendon by adjusting femoral shaft; frame must stay aligned with thigh to maintain correct motor height ;	☐	
11) Verify femoral shaft height → same length on both sides (unless known anatomical issue);		
12) Adjust lower thigh notches → correct A-P position of motor. Verify that the frame is aligned with the midline of the thigh in the sagittal plane;	☐	
13) Verify tibial contact area fit → conforms to leg (no gap), starts under patellar tendon;	☐	
14) Attach clips on contact areas; Tighten Velcro® straps (keep them aligned);		
15) Tighten screws on tibial & lower thigh contact areas (angles should be ideal for comfort/fit);		
16) Clip control unit and battery to waist belt;		

While standing upright:

💡 17) Verify hip sensor alignment → to axis of rotation, same height on both sides;	☐	
💡 18) Verify knee motor alignment → motor axis through midline of patella or between midline of patella and tibial plateau;	☐	
19) Verify frame alignment → to femur from front and side view (no int/external rotation);	☐	
20) Adjust upper thigh contact area position if needed;		
21) Slightly tighten glute belt if needed;		
→ Continue to Final fitting check before tuning on page 3		

Final fitting check before tuning:

Battery check (💡 = key point; || = parallel; A-P = anterior-posterior):

- 1) Take battery out of storage mode (if not done so yet);
- 2) **Verify battery charge** → determine if current charge fits need;
- 3) **Connect battery** to Keeogo; **Verify connector is locked**;
- 4) Verify proper attachment of battery and control unit on belt;
- 5) Verify Keeogo is *OFF* & *yellow* LED shows on the control unit;

Belt fit in upright stance:

- 7) **Tighten the belt** in upright stance → **ensure Keeogo cannot slide down**;
- 💡 8) **Verify belt & Keeogo fit** → **not slanted or asymmetrical** (unless posture or anatomical abnormality). Adjust fit if needed;

Keeogo fit during use:

- 9) After several minutes of use, **check Keeogo fit in upright stance** → if Keeogo slid down significantly or slanted in use → **verify using hip sensor & knee motor alignment**;
- 10) Readjust Keeogo and correct fitting issue if needed before continuing use;

After 1st session:

- 💡 Take note of sizes & adjustments for next session with user
(belt size, hip-hanger position, fem. shaft length, contact areas, screw & notch positions)

Fitting completed by:

Clinician name (Print)

Signature

□ □ □ □ / □ □ / □ □
Date (YYYY/MM/DD)