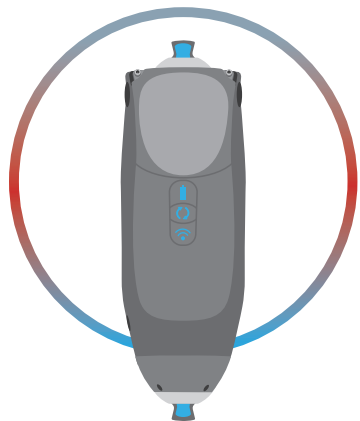
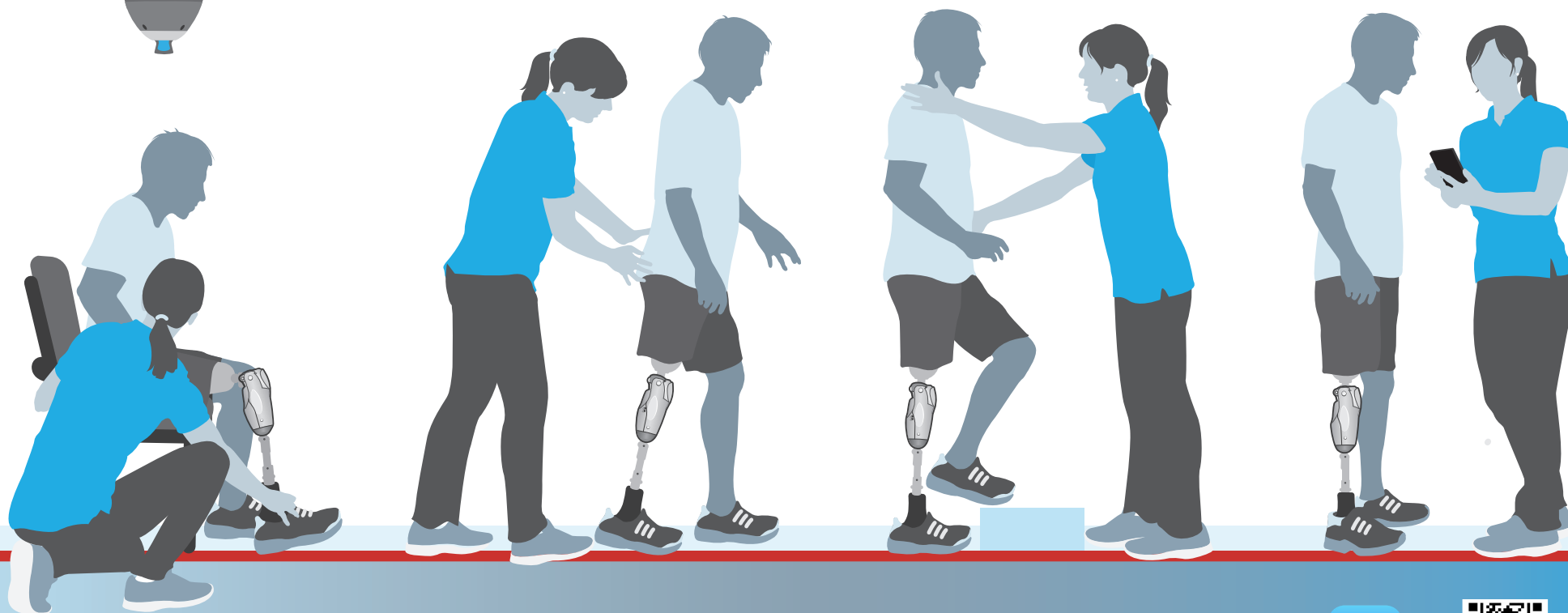




- ▶ CLINICIAN FULL SETUP GUIDE
- ▶ GUIDE D'INSTALLATION COMPLET DU CLINICIEN
- ▶ GUÍA DE CONFIGURACIÓN COMPLETA PARA EL CLÍNICO
- ▶ SETUP GUIDE FÜR ORTHOPÄDIETECHNIKER

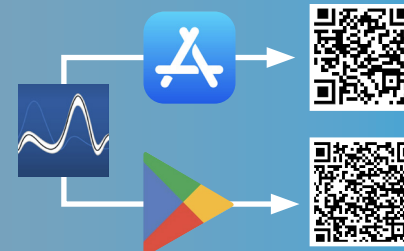


▶ GaitLab App

▶ Application
GaitLab

▶ Aplicación
GaitLab

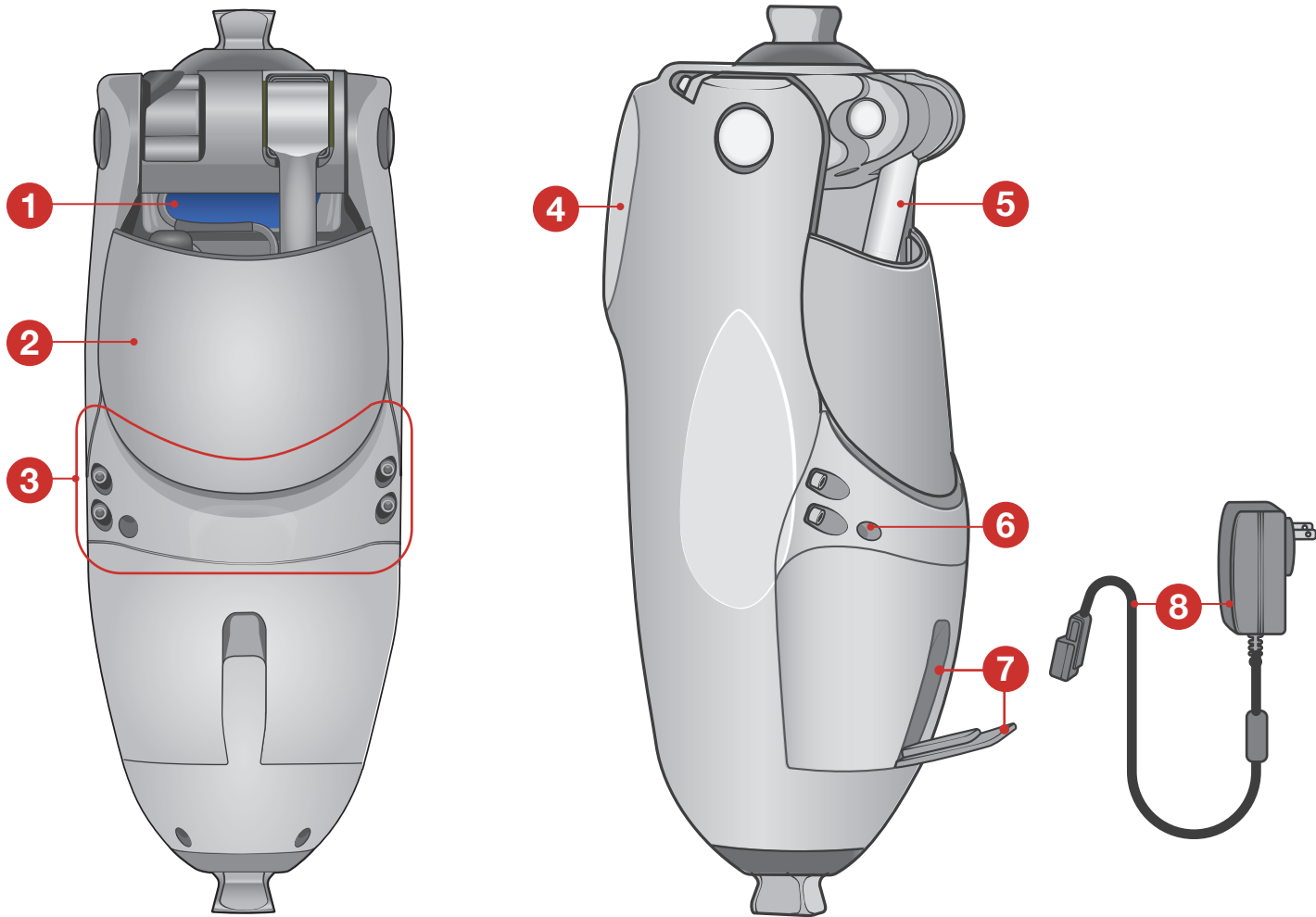
▶ GaitLab-App



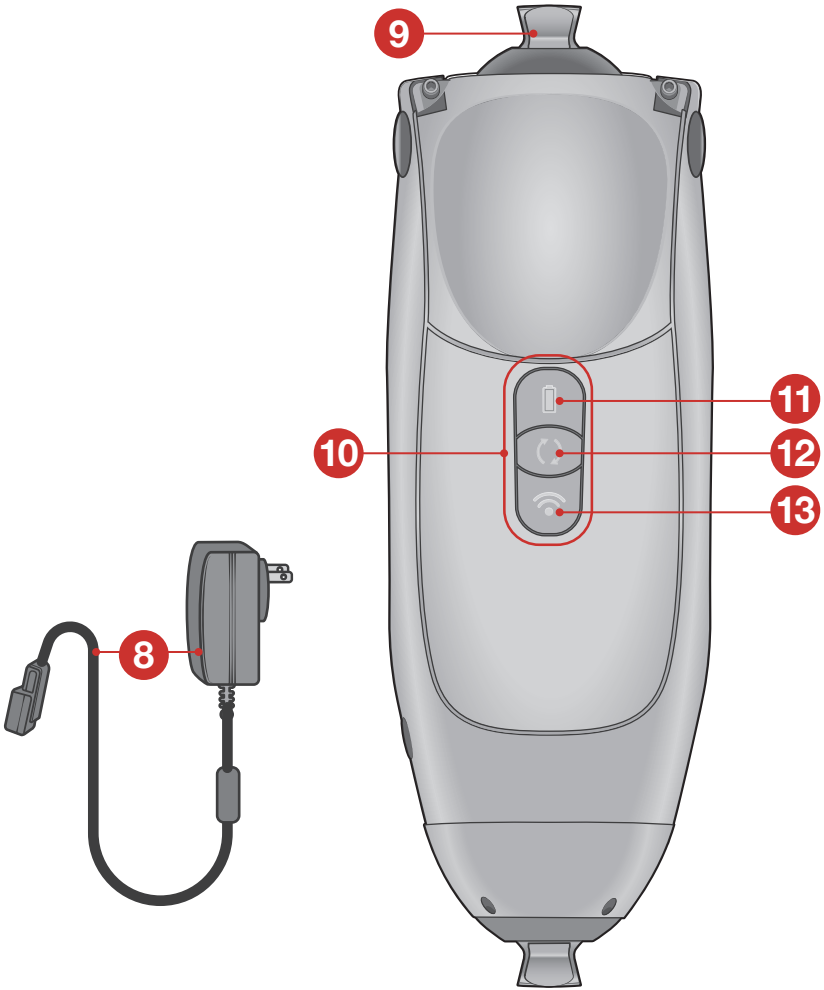
1

PROTEOR QUATTRO[®]

Microprocessor Knee



1. Flexion angle limiter
2. Flexible back cover
3. Rear brace
4. Replaceable knee pad
5. Cylinder shaft
6. Dead battery resistance adjustment screw
7. Charging port and dust cover
8. Battery charger and cable



9. Pyramid adapter
10. Keypad

Button	Status	Charge level	LED description
11 Battery Status	Fully charged	51–100%	
	Charged	21%–50%	
	Low	11–20%	
	Very low	1–10%	
	Knee reboot	Hold 6 seconds	

Button	Function	Status	LED description
12 Change Mode	Check activity Press and release	Unlocked	Walking: Alternate:
		Locked	
	Enable/disable lock Press twice	Lock engaged	
		Locked engaged, with very low battery	
		Locked disengaged	Previous LED activity resumes
	Toggle between Walking and Alternate Long press	Current activity: Walking	
		Current activity: Alternate	
		Current activity: Walking Alternate activity not enabled in patient app or unsafe to switch activities	

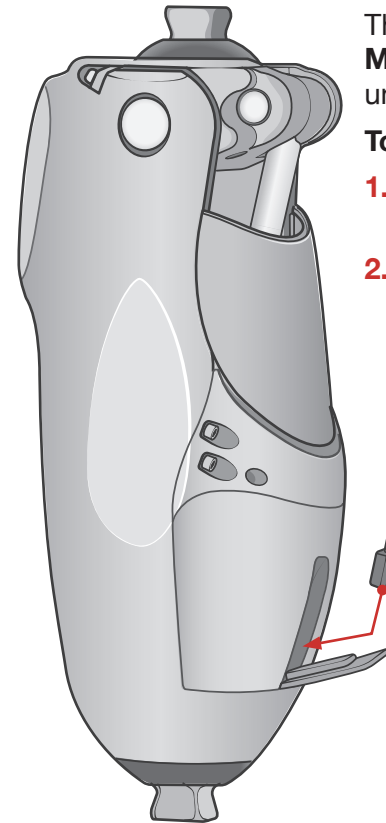
Button	Function	Description	LED description
13 Wireless	Pair with knee	Pairs with devices	None

LED Key	
Solid green	
Blinking green	
Solid red	
Blinking red	
Blinking blue	
Solid white	
Slow blinking white	
Fast blinking white	

2

GET STARTED

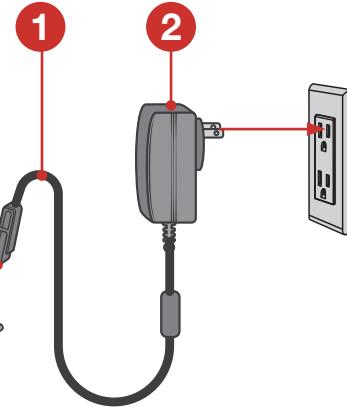
Wake the knee



The QUATTRO knee ships in **Storage Mode**. The knee will not perform (or wake) until it is plugged into a power supply.

To wake the knee:

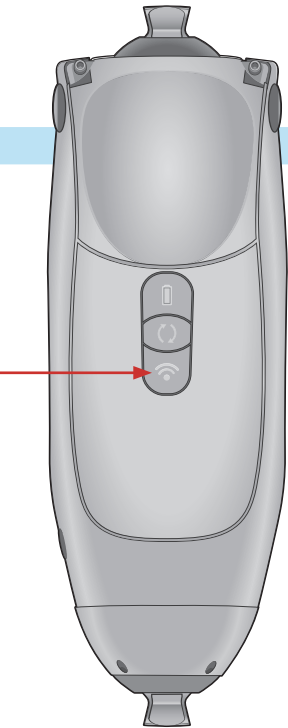
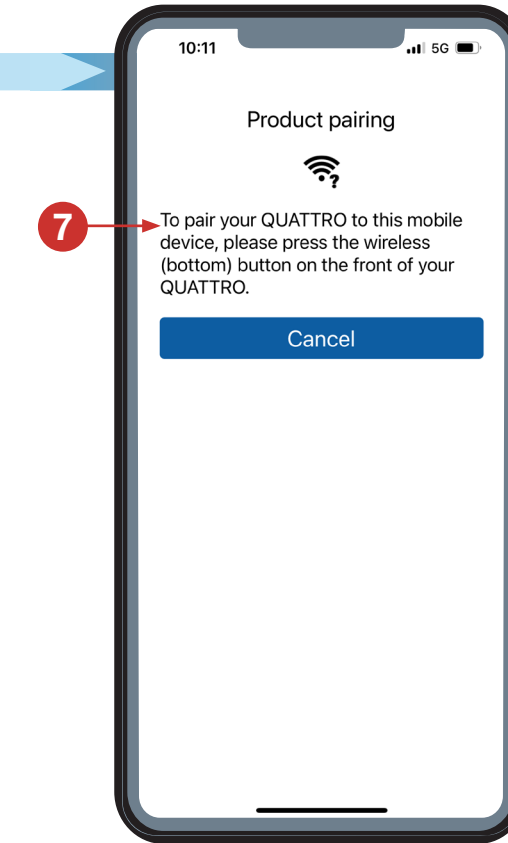
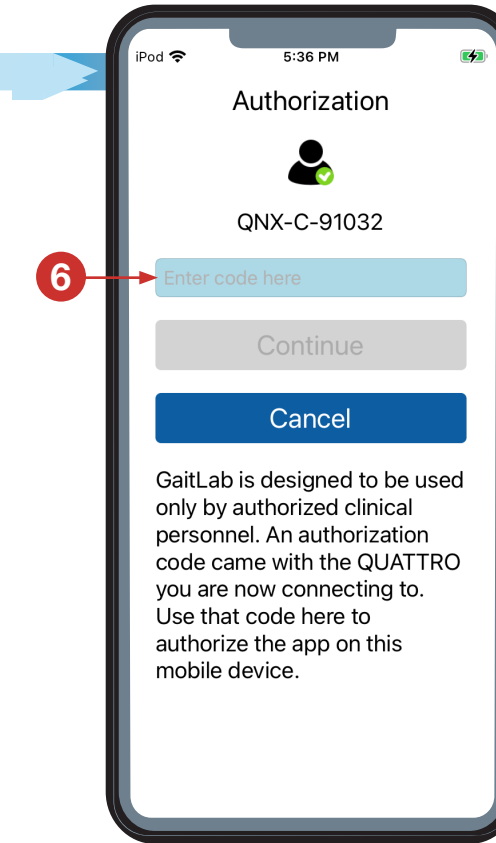
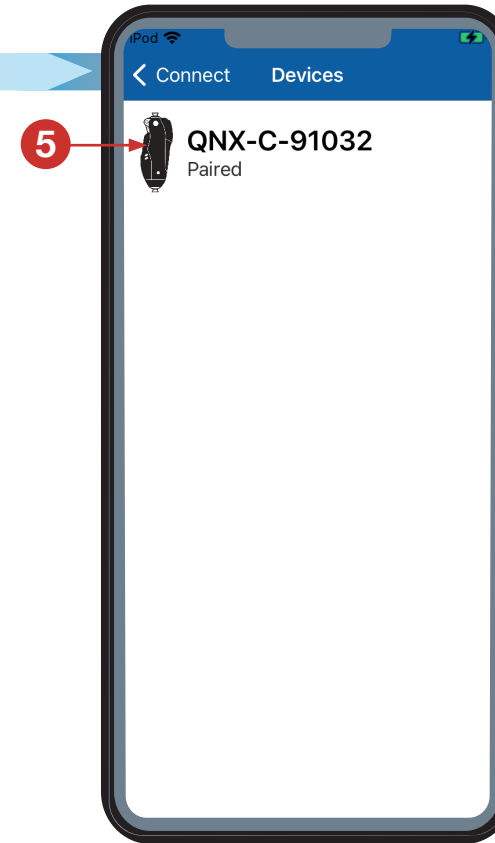
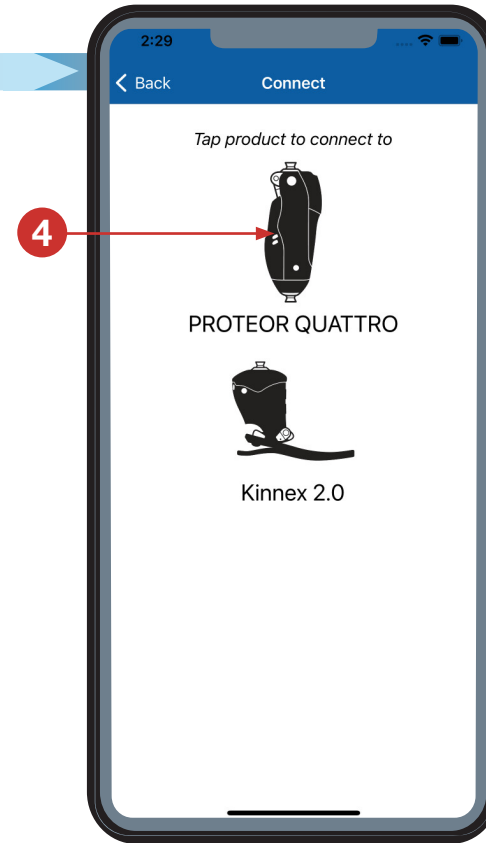
1. Insert the cable or charged booster battery pack into the charger port.
2. Insert the charger into a power source.



IMPORTANT!

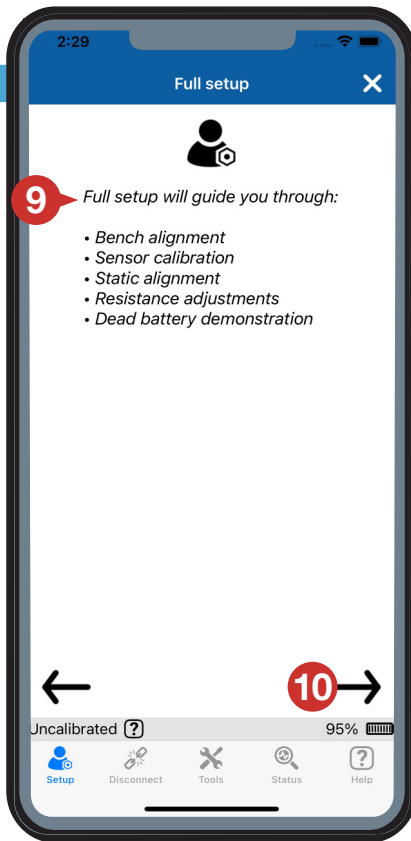
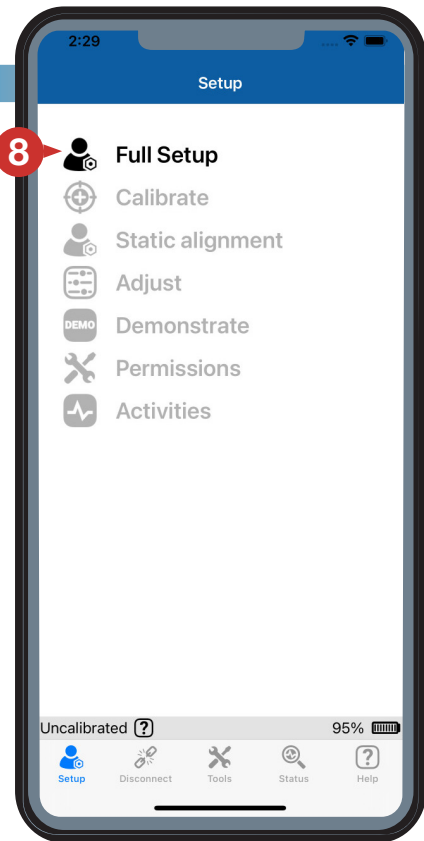
- Do not leave the knee unattended. The battery will discharge when idle.
- To save battery life, place the knee in **Storage Mode** by pressing and holding both the **Change Mode** and **Wireless** buttons until they flash red, white, and blue
- Ensure you have the proper power source to wake the knee before putting the knee into **Storage Mode**.

Connect

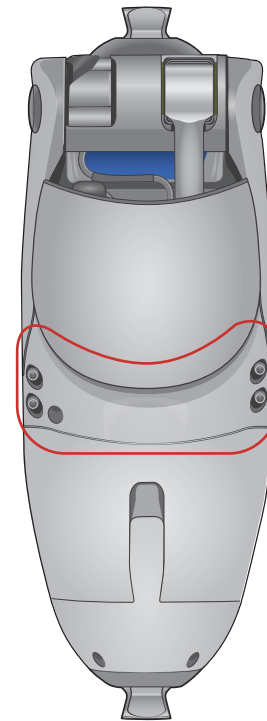
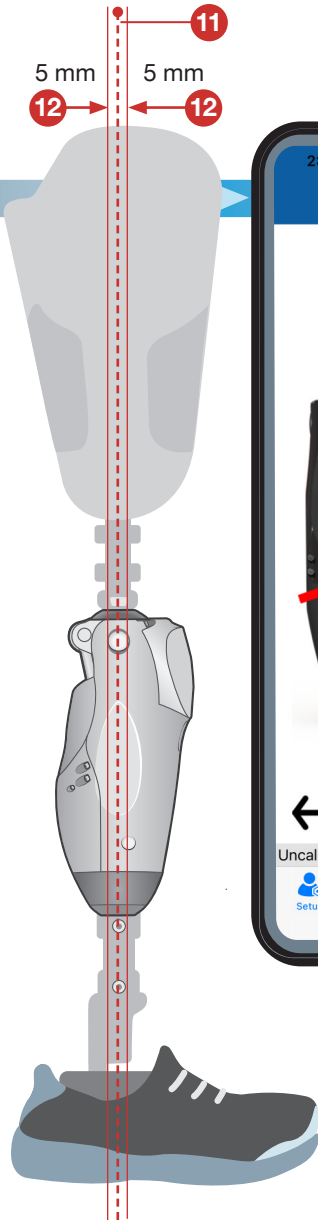
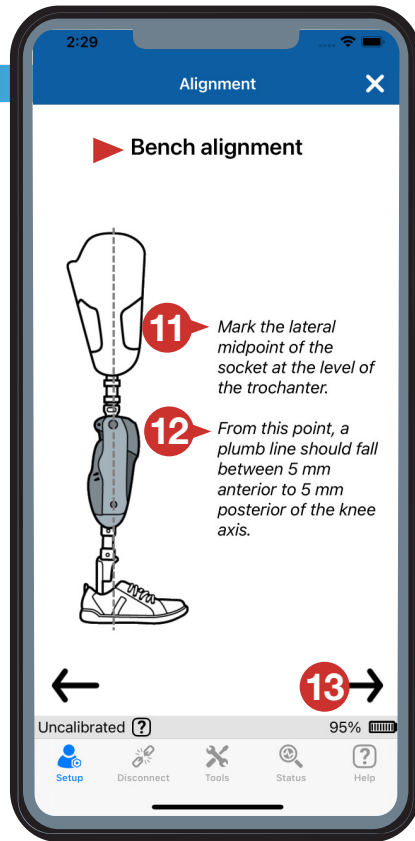


3 QUATTRO FULL SETUP

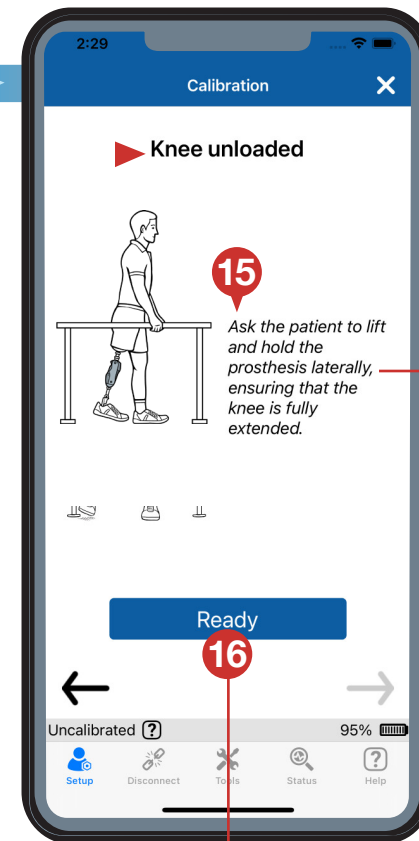
Setup



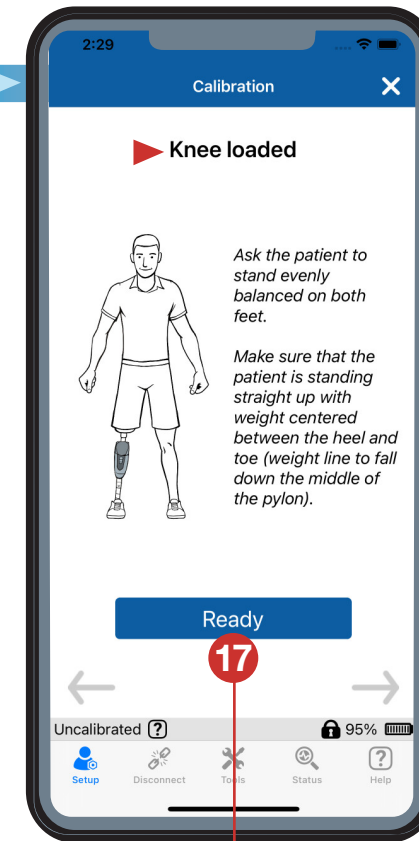
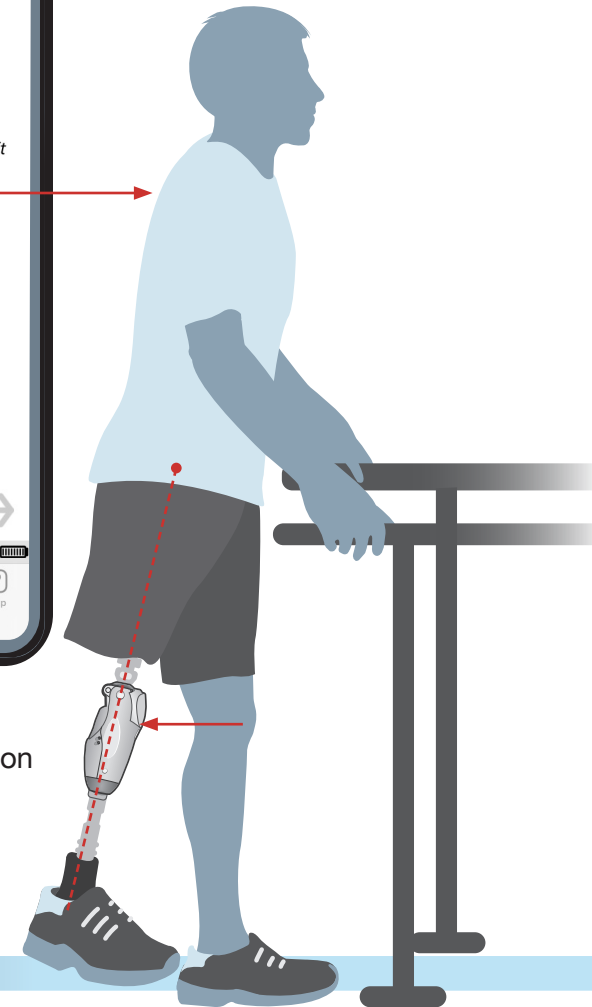
Alignment



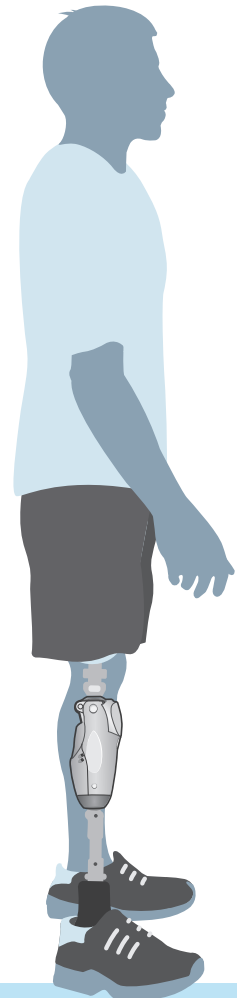
Calibration



Press **Ready**
after the patient is in position



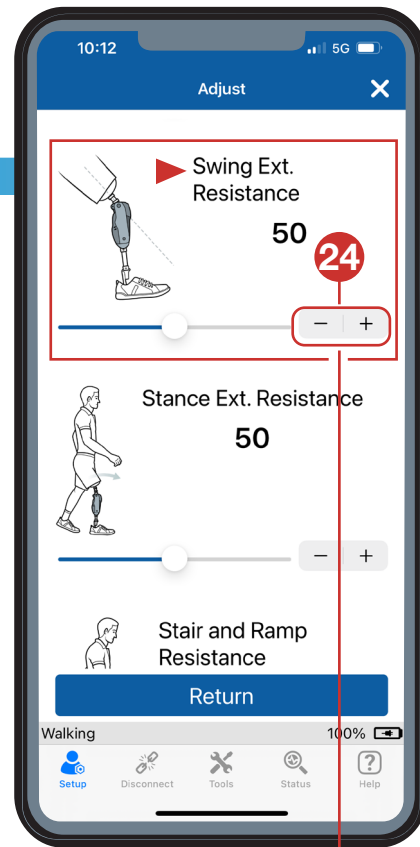
Press **Ready**
after the patient is in position



Adjust

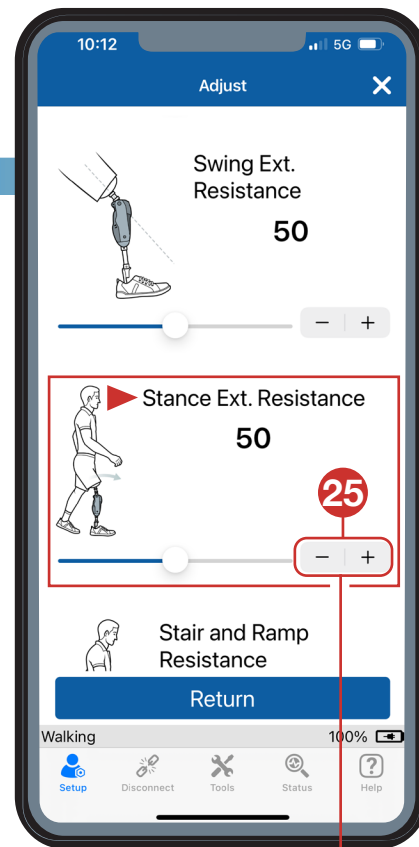
TIP!

Scroll down for additional adjustments



Controls **swing extension resistance**.

- To decrease resistance
- + To increase resistance

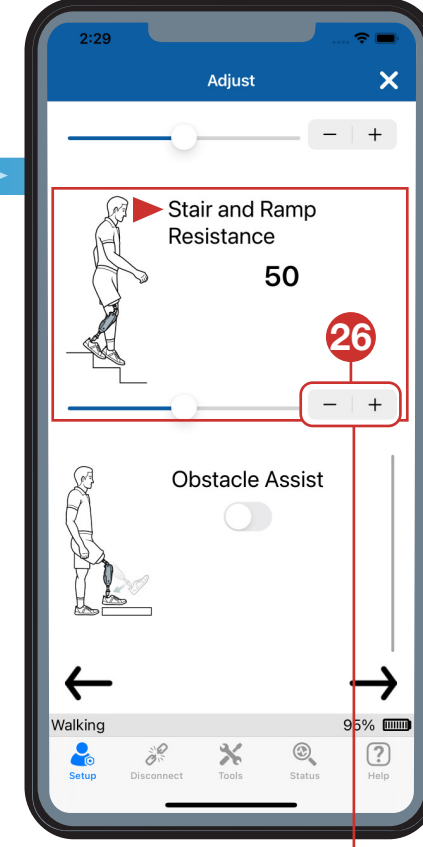
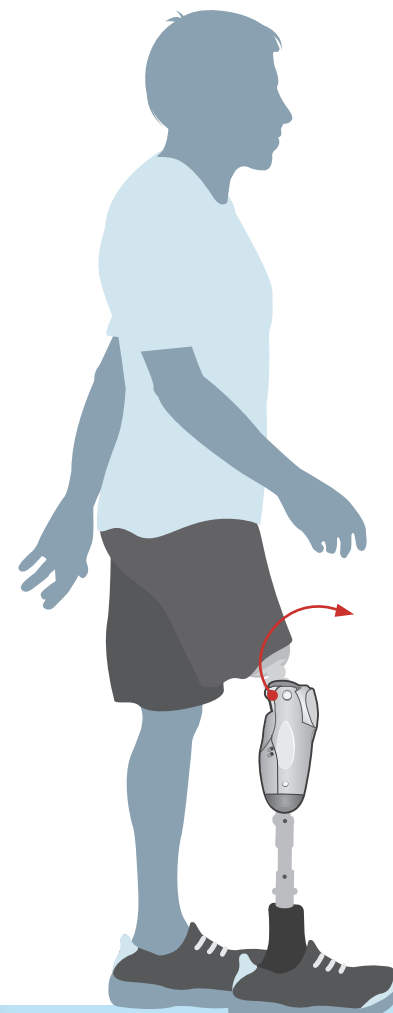


Controls **stance extension resistance**.

- To decrease resistance
- + To increase resistance

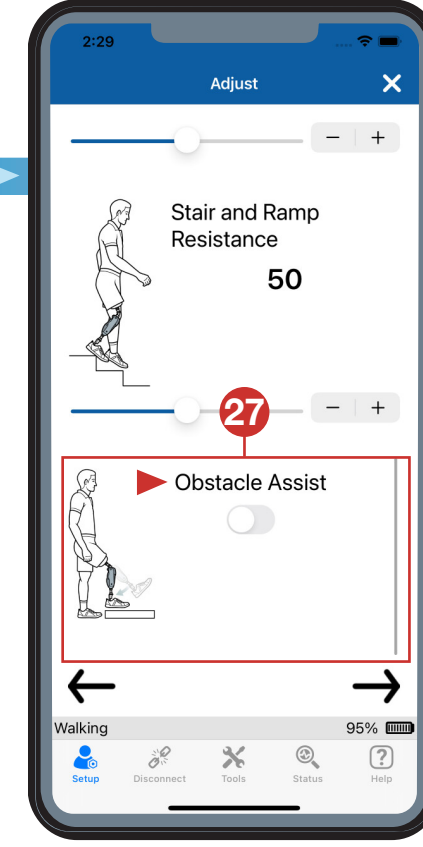
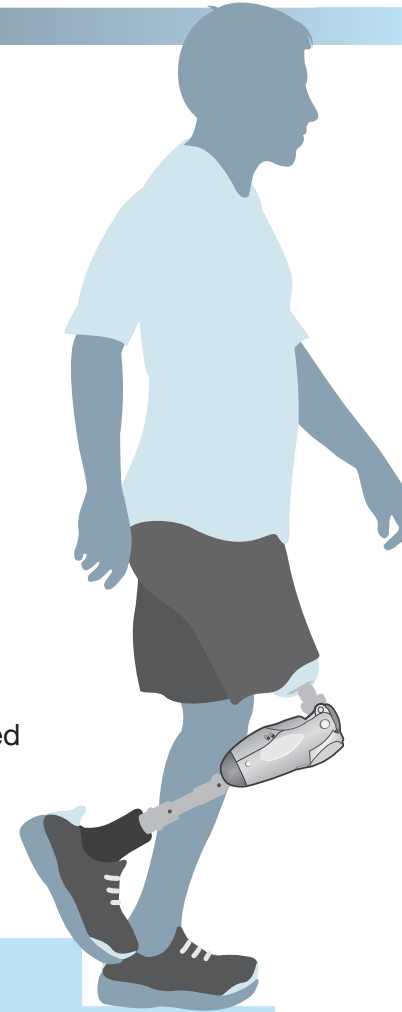
NOTE

Only adjusted when walking with **Stance Flexion**.



Provides independent resistance for **stair and ramp decent**.

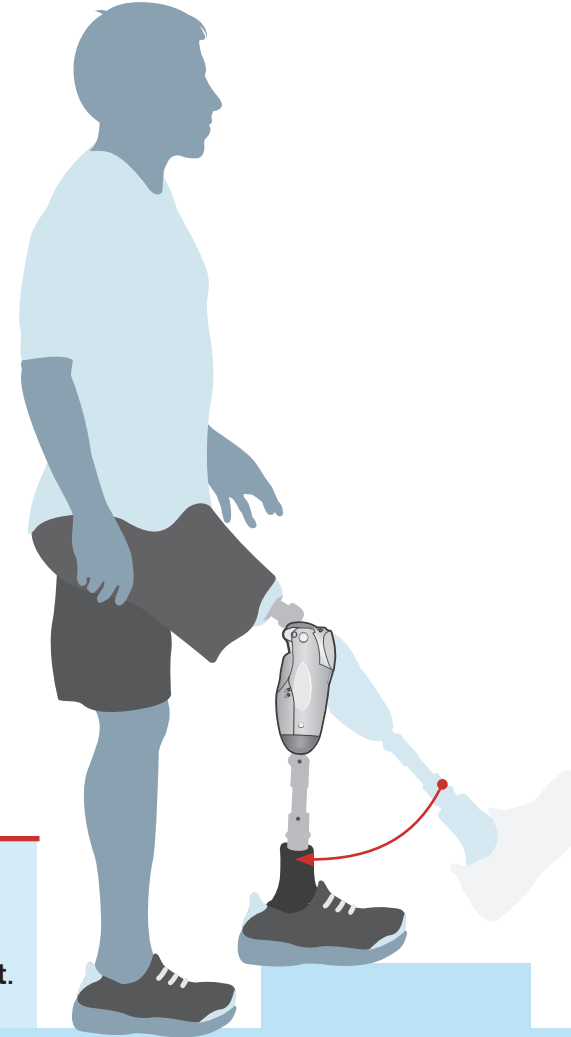
- When knee flexion is delayed due to high resistance
- + When knee flexion is rapid due to low resistance



Provides help encountering an **obstacle**.

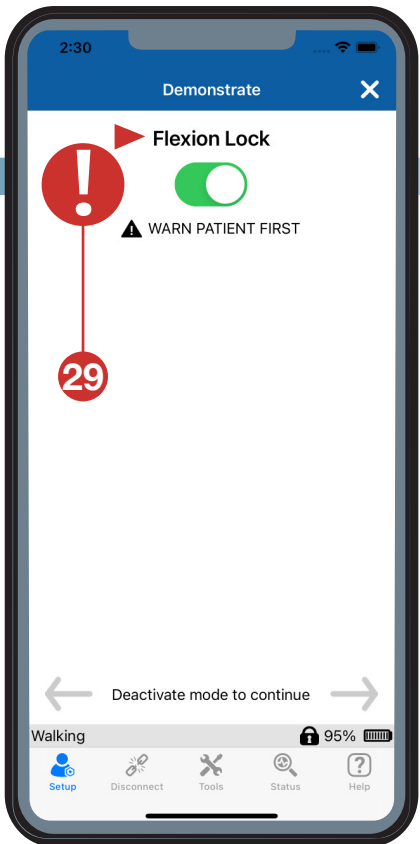
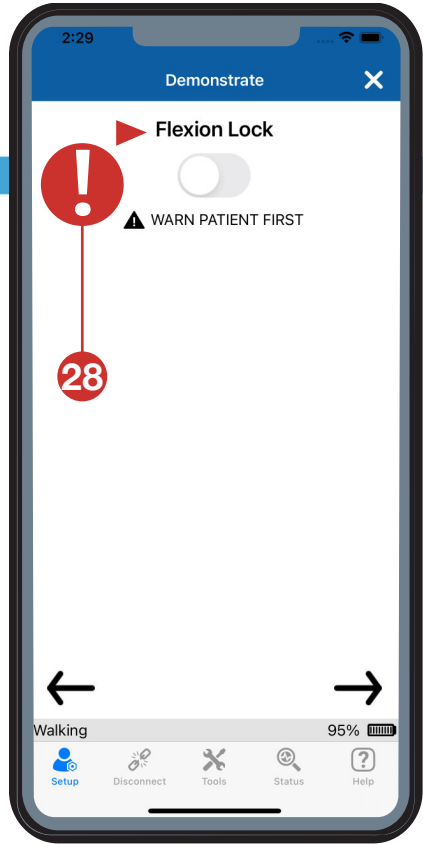
NOTE

If **Sitting Mode** is turned off, it will also disable **Obstacle Assist**.



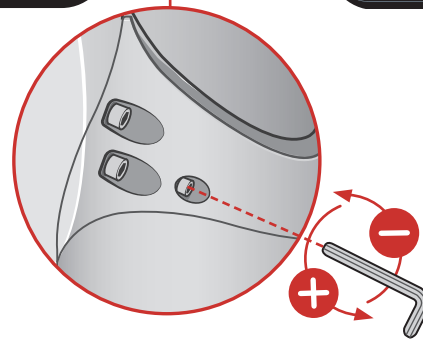
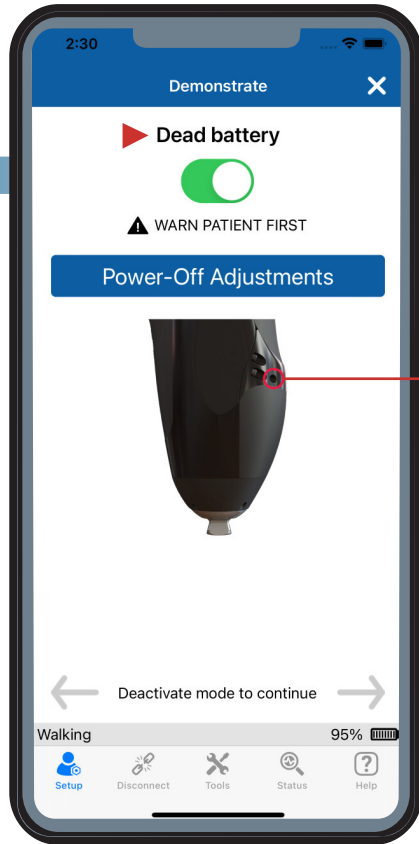
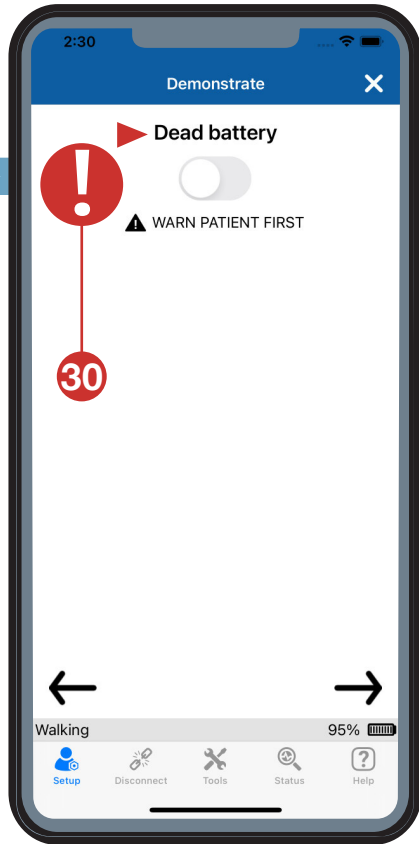
Demonstrate

When the **Flexion Lock** is engaged, it blocks flexion but allows ratcheting up to full extension.

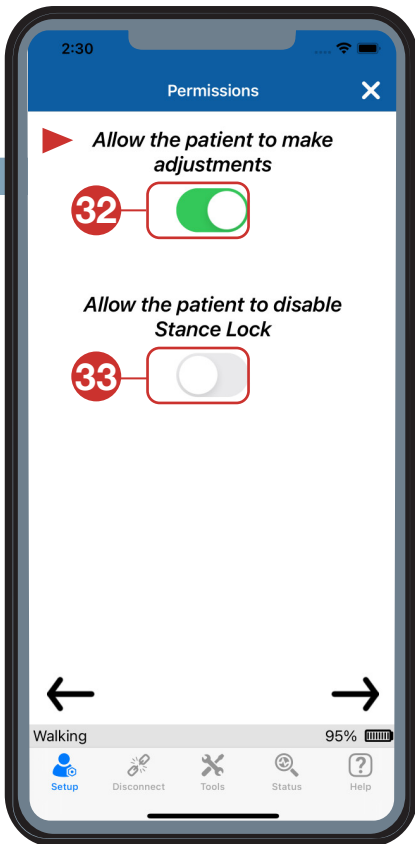


Demonstrate and Adjust

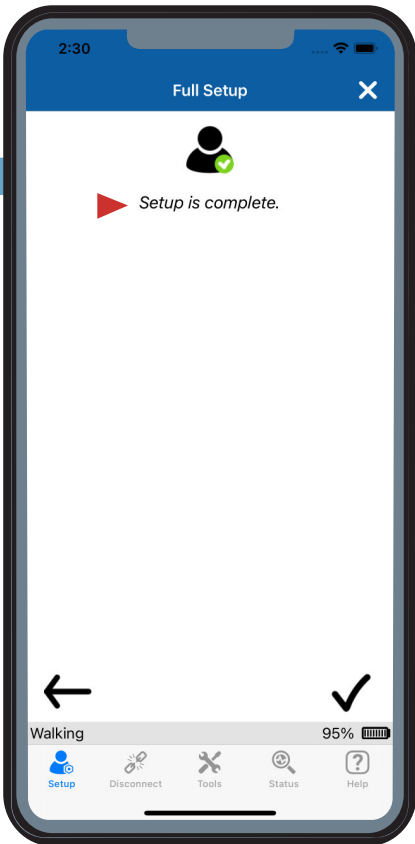
Perform resistance adjustments using a fully discharged battery.



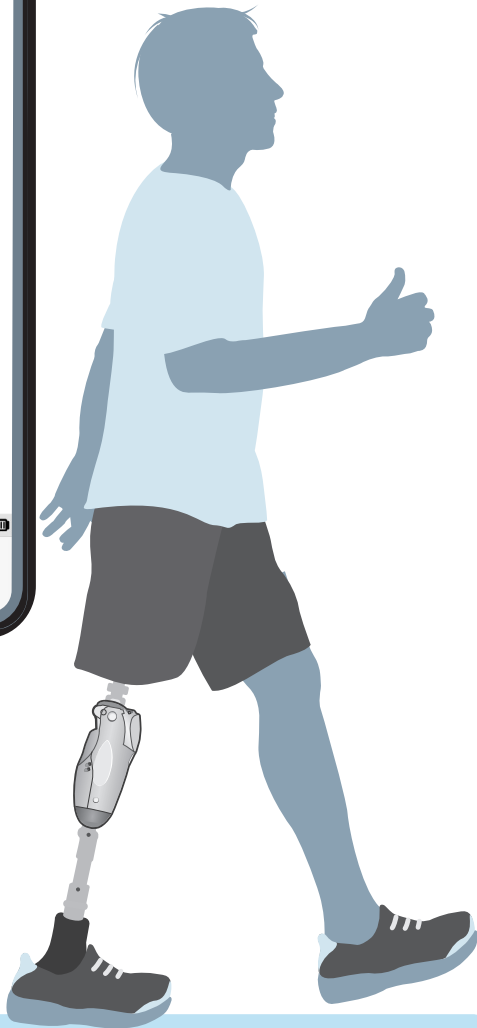
Permissions



Full Setup



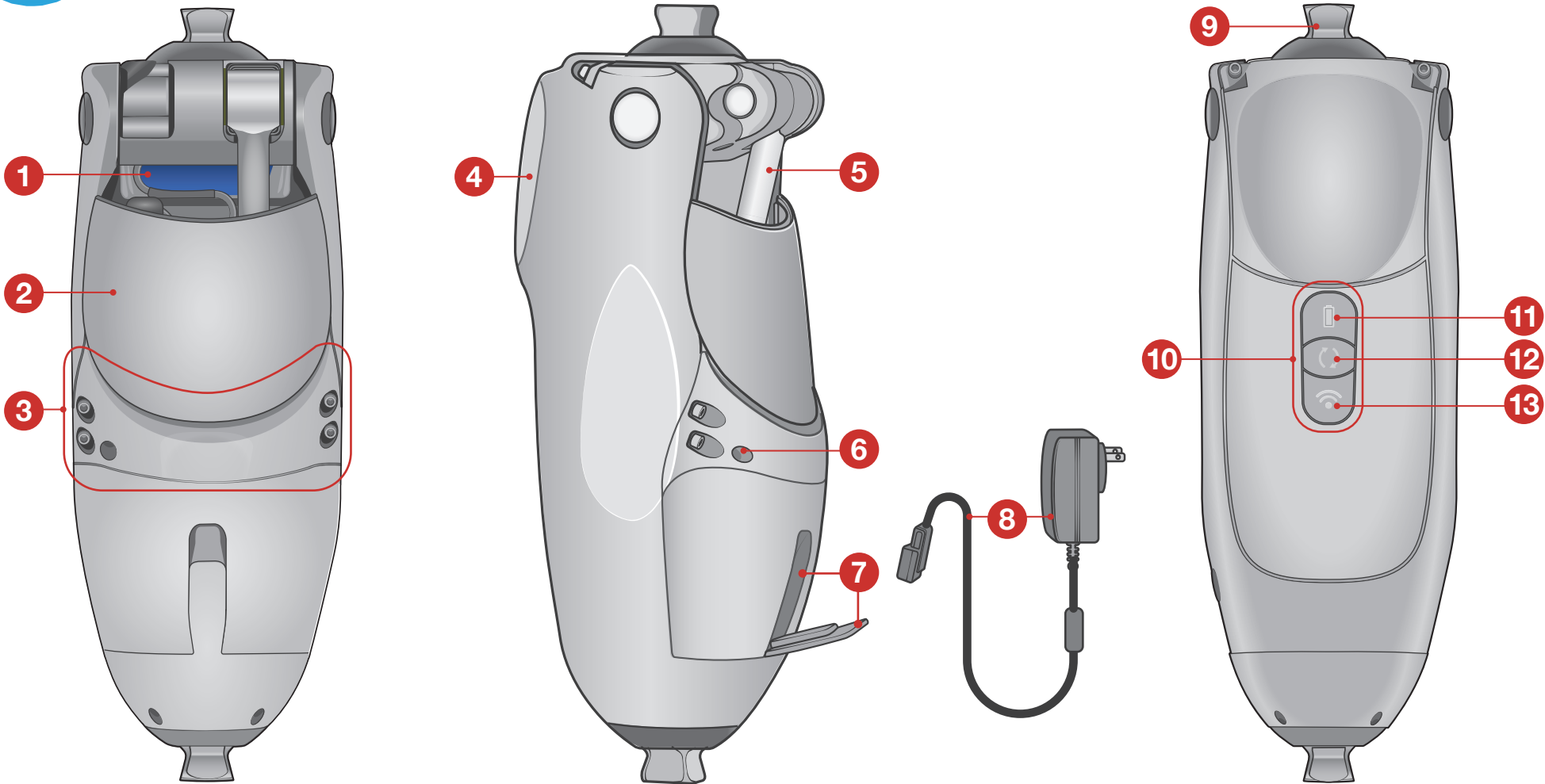
Setup Complete



1

PROTEOR QUATTRO[®]

Genou à microprocesseur



1. Limiteur d'angle de flexion

2. Cache arrière flexible

3. Cale arrière
4. Capot du genou remplaçable

5. Arbre de vérin

6. Vis de réglage de la résistance en flexion hors tension

7. Port de charge et cache de protection anti-poussière

8. Chargeur et câble
9. Adaptateur pyramidal

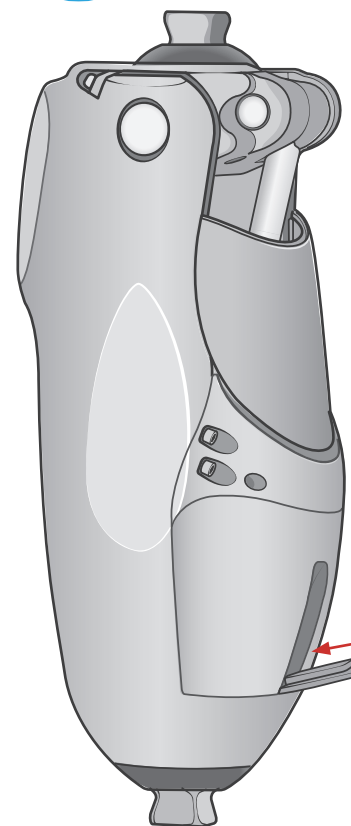
10. Boutons du panneau de commande

Bouton		Statut	Niveau de charge	Description des témoins lumineux	LED Key	
11 État de la batterie	Entièrement chargée		51 à 100 %		Vert fixe	
	Chargée		21 à 50 %		Vert clignotant	
	Faible		11 à 20 %		Rouge fixe	
	Très faible		1 à 10 %		Rouge clignotant	
	Redémarrage du genou	Maintenir enfoncé 6 secondes			Bleu clignotant	
Bouton		Fonction	Statut	Description des témoins lumineux		
12 Changement de mode	Vérification de l'activité Appuyer et relâcher	Déverrouillé	Marche : Mode Alternatif :	Blanc fixe		
		Verrouillé		Blanc clignotement		
	Activation / Désactivation du verrouillage Appuyer deux fois	Verrouillage activé		Blanc clignotement rapide		
		Verrouillage activé, batterie très faible	 			
		Verrouillage désactivé	Reprise de l'activité du témoin lumineux précédent			
	Bascule entre les modes Marche et Alternatif Appuyer longtemps	Activité actuelle: Marche				
		Activité actuelle: Alternatif				
		Activité actuelle: Marche Le mode d'activité Alternatif n'est pas activé dans l'application patient ou le changement d'activité comporte un risque				
	Bouton		Fonction	Description	Description des témoins lumineux	
13 Sans fil	Appairage du genou	Appairage des dispositifs	Aucun			

2

DÉMARRAGE

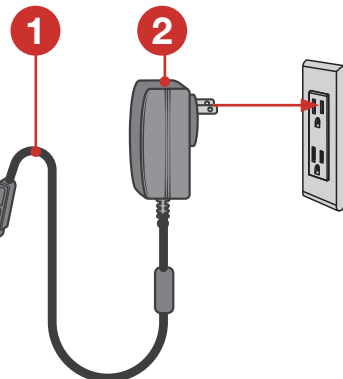
Réveil du genou



Le genou QUATTRO est expédié en **Mode stockage**. Le genou ne pourra fonctionner (ou se réveiller) qu'une fois branché sur une source d'alimentation.

Pour réveiller le genou :

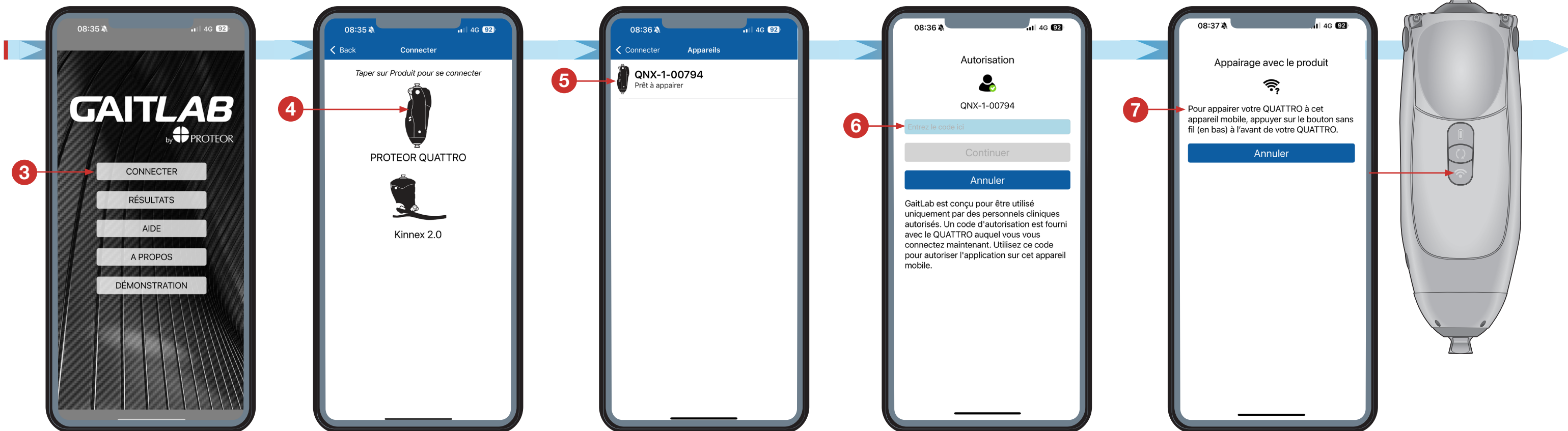
1. Insérer le câble ou le kit booster batterie chargé dans le port de charge.
2. Brancher le chargeur sur une source



d'alimentation.

- Ne pas laisser le genou sans surveillance. Lorsque le genou est inactif, la batterie se décharge.
- Pour économiser la batterie, sélectionner le **Mode stockage**. Pour ce faire, maintenir simultanément les boutons **Changement de mode** et **Sans fil** enfoncés jusqu'à obtenir un clignotement rouge, blanc et bleu.
- S'assurer que la source d'alimentation est appropriée pour activer le genou avant de sélectionner le **Mode stockage**.

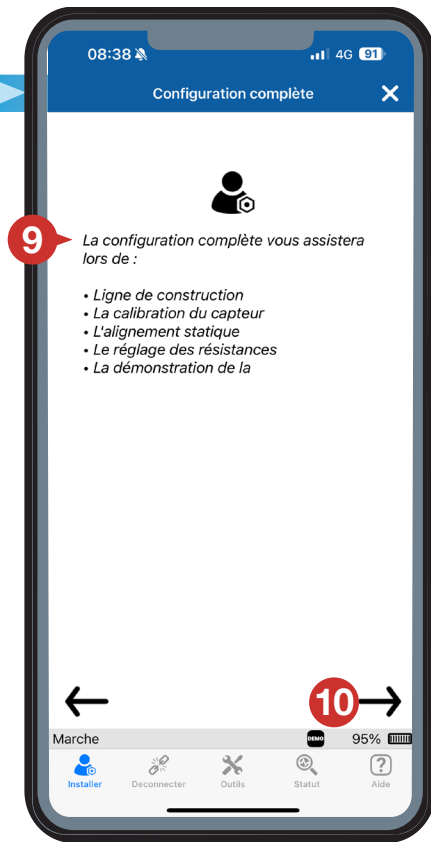
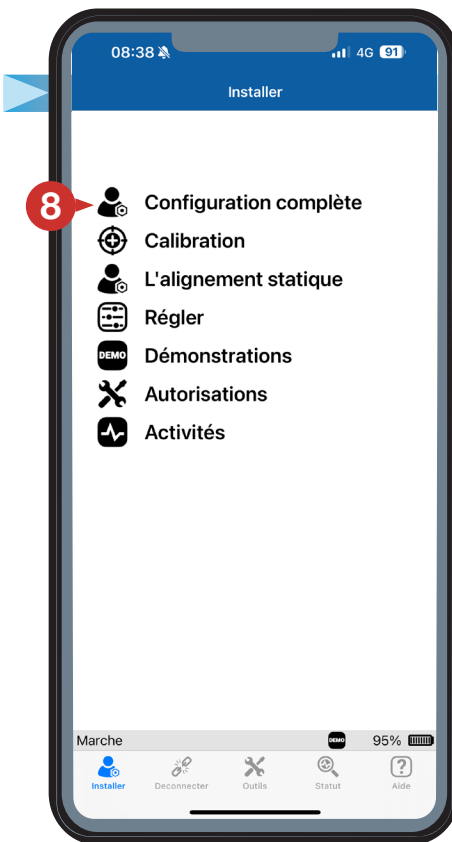
Connexion



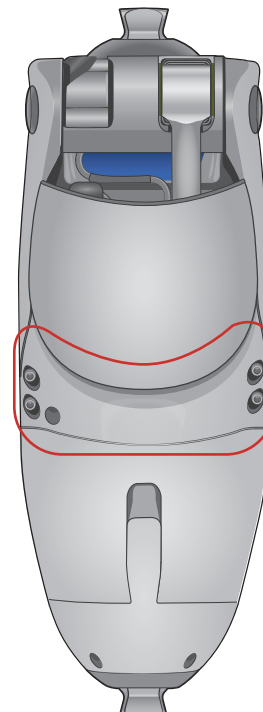
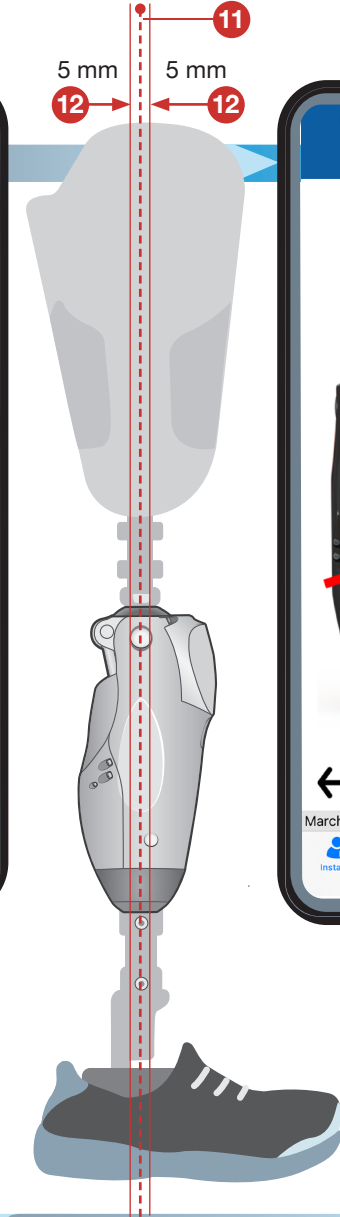
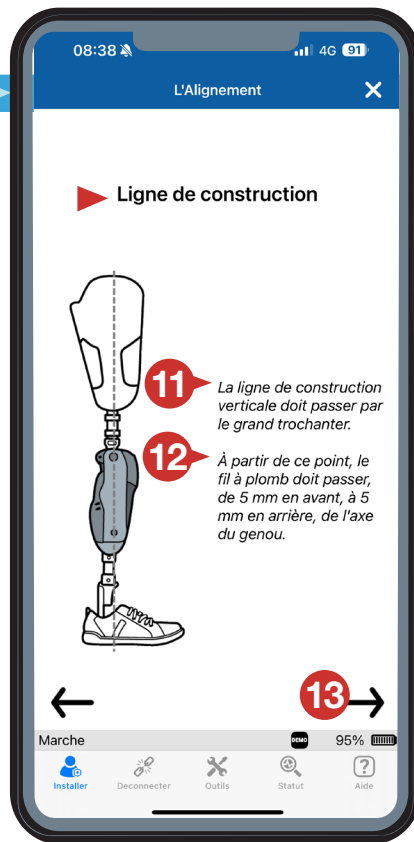
FRENCH

3 CONFIGURATION COMPLÈTE DE QUATTRO®

Configuration



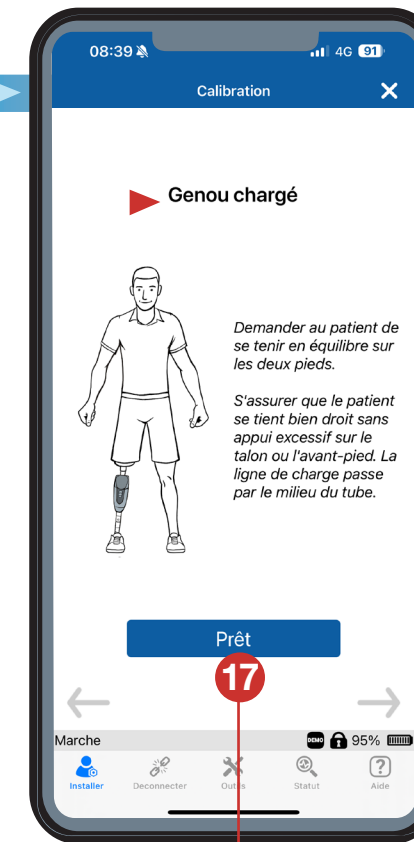
Alignement



Calibration



Appuyer sur **Prêt**
une fois que le patient
est en position



Appuyer sur **Prêt**
une fois que le patient est en
position

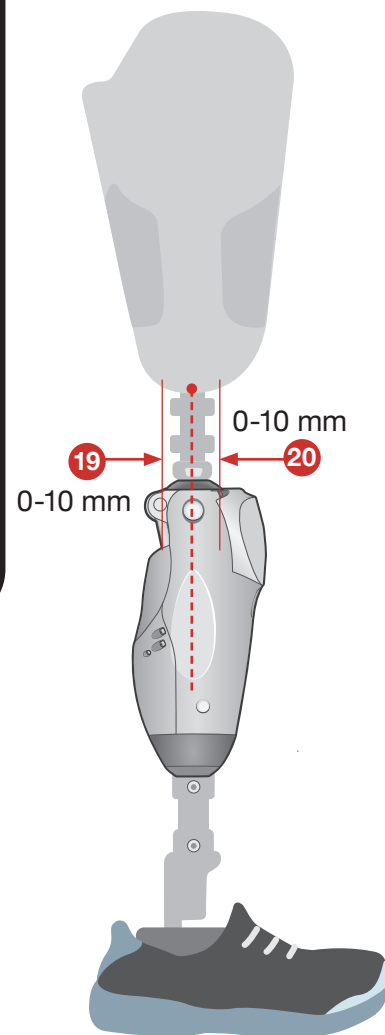
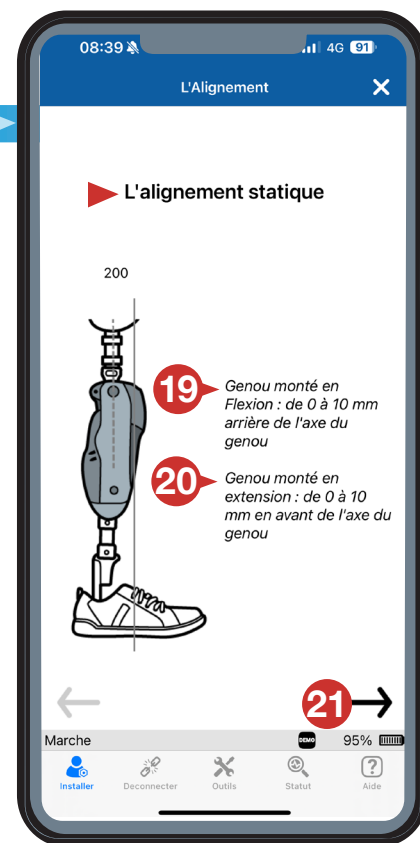
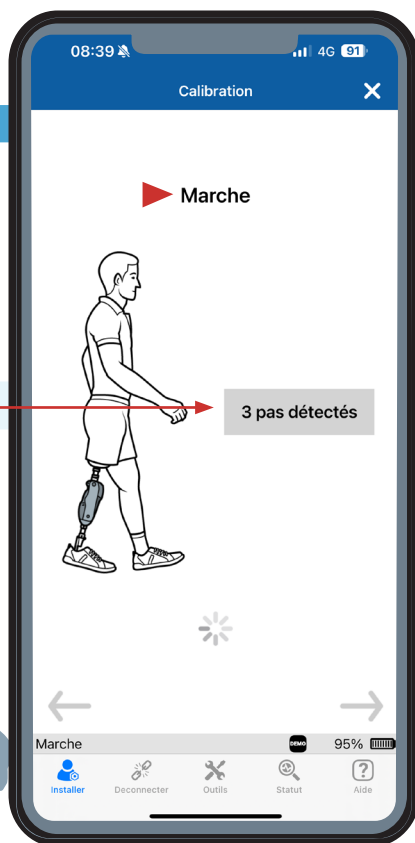


FRENCH

Alignement



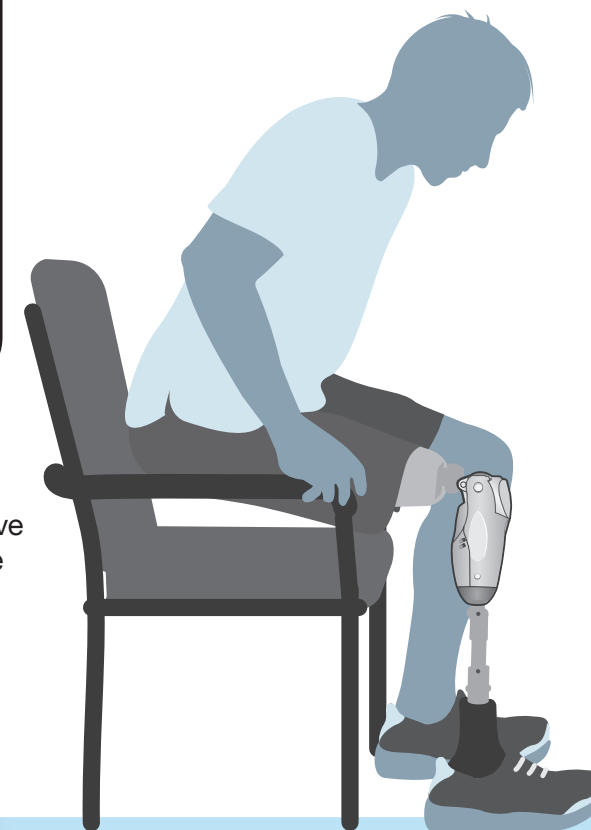
Appuyer sur **Prêt**
avant que le patient
ne commence à marcher



Réglage



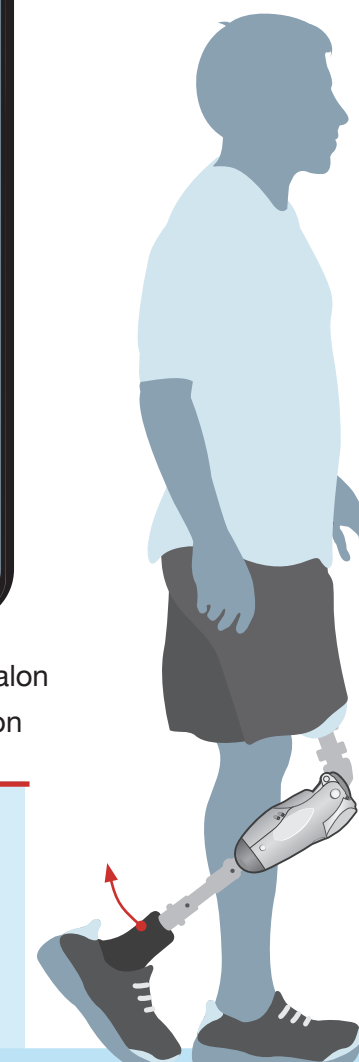
Fournit la résistance en flexion en position **assise**.



- En cas de retard dû à une forte résistance
- + En cas de rapidité excessive due à une faible résistance

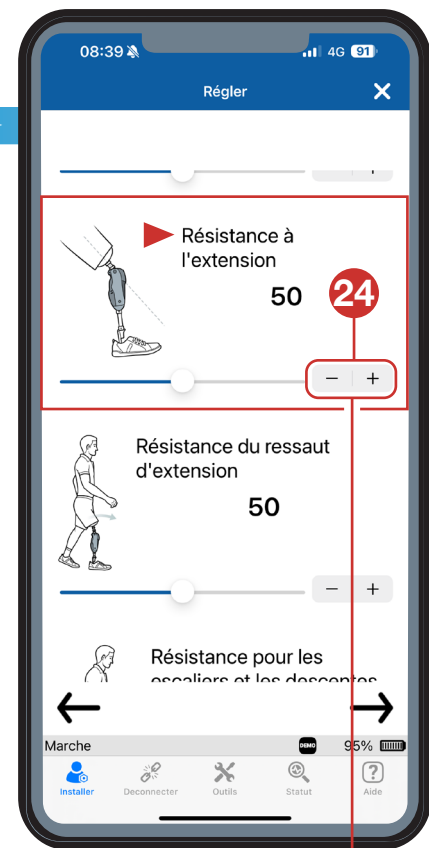


Contrôle la résistance de l'élévation du **talon**.

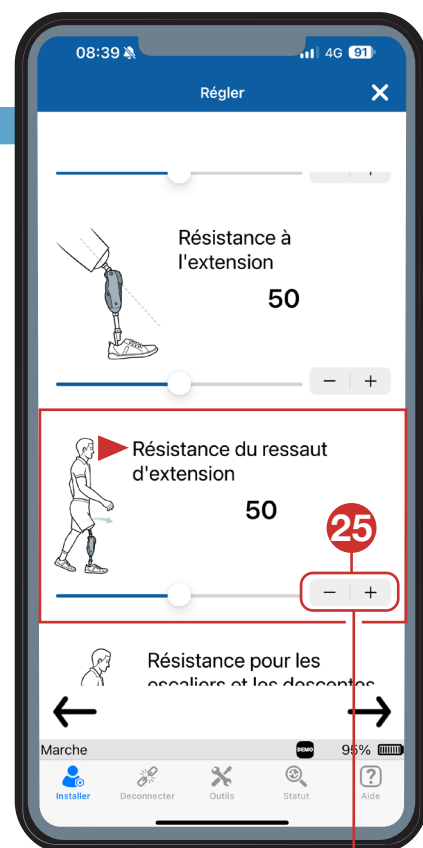
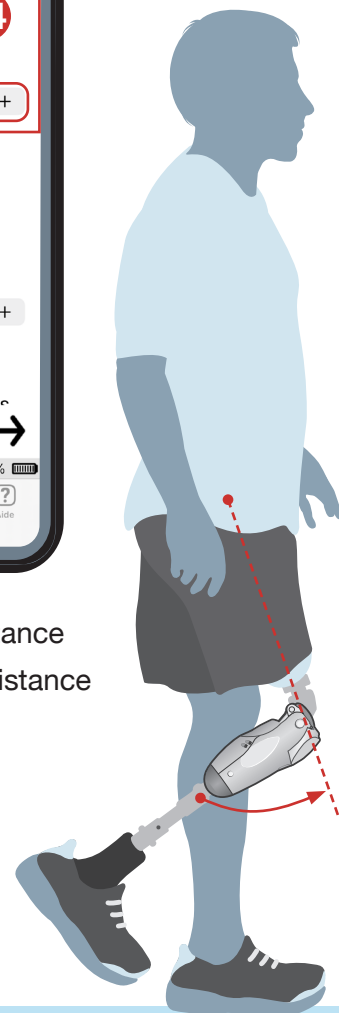


CONSEIL !

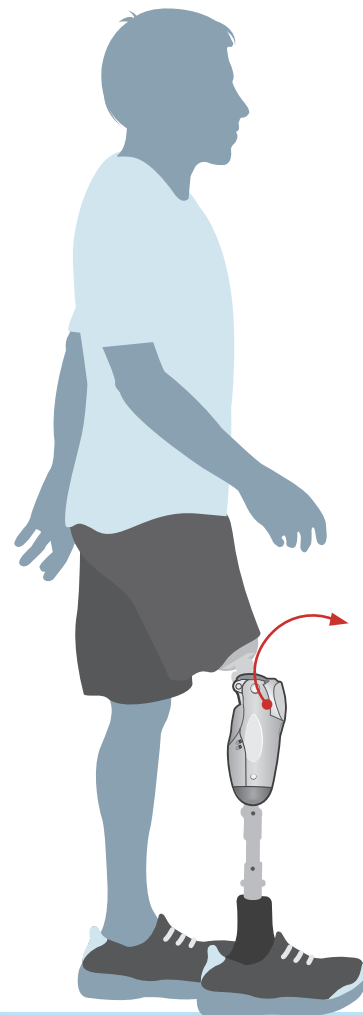
Défiler vers le bas pour plus de réglages



Contrôle la **résistance**
à l'**extension** en phase pendulaire.



Contrôle la **résistance**
à l'**extension** en phase d'appui.



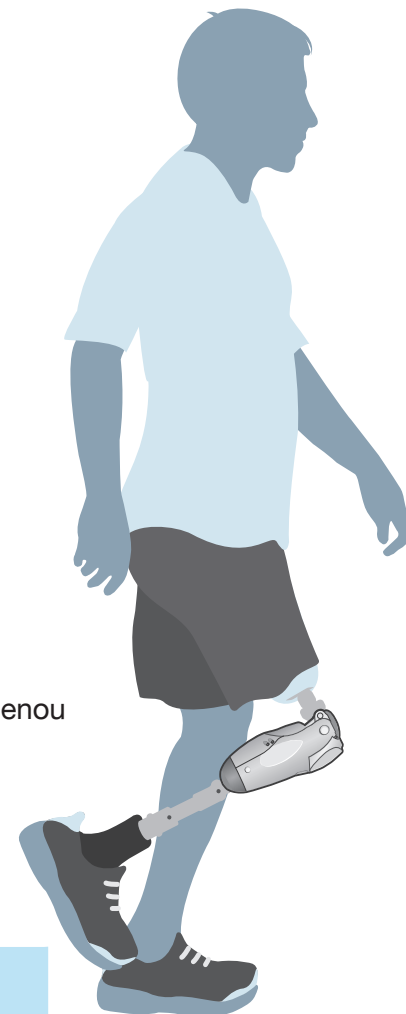
- Pour diminuer la résistance
- + Pour augmenter la résistance

REMARQUE

Ne peut être réglé que lors
de la marche avec **flexion**
en phase d'appui.



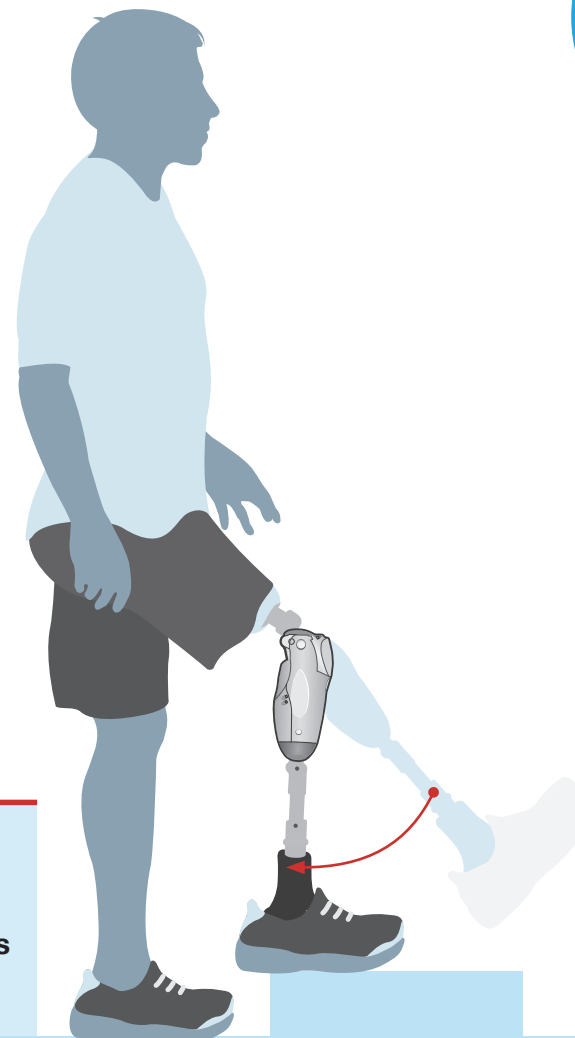
Fournit une résistance
indépendante pour la **descente**
d'escaliers ou de rampes.



- En cas de flexion retardée du genou
due à une forte résistance
- + En cas de flexion rapide
du genou due à une
faible résistance



Fournit une aide en
cas d'**obstacle**.



REMARQUE

Si le **mode assis** est désactivé,
l'**assistance pour les obstacles**
le sera également.

Menu Démonstration

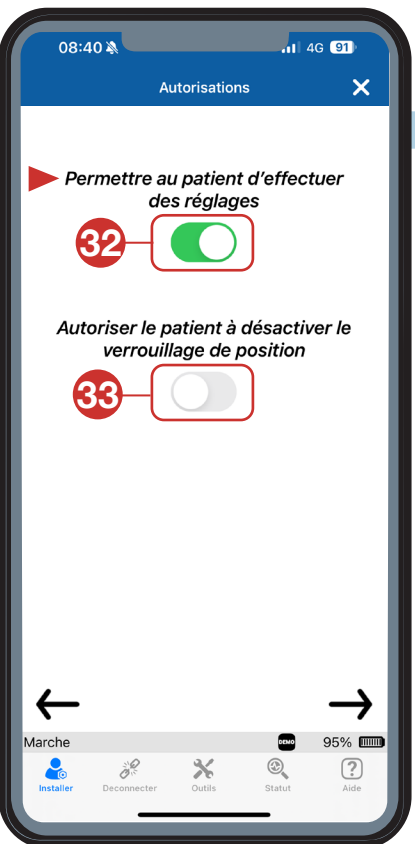
L'activation du **verrouillage en flexion** bloque la flexion mais permet d'atteindre l'extension complète.

Menu Démonstration et réglage

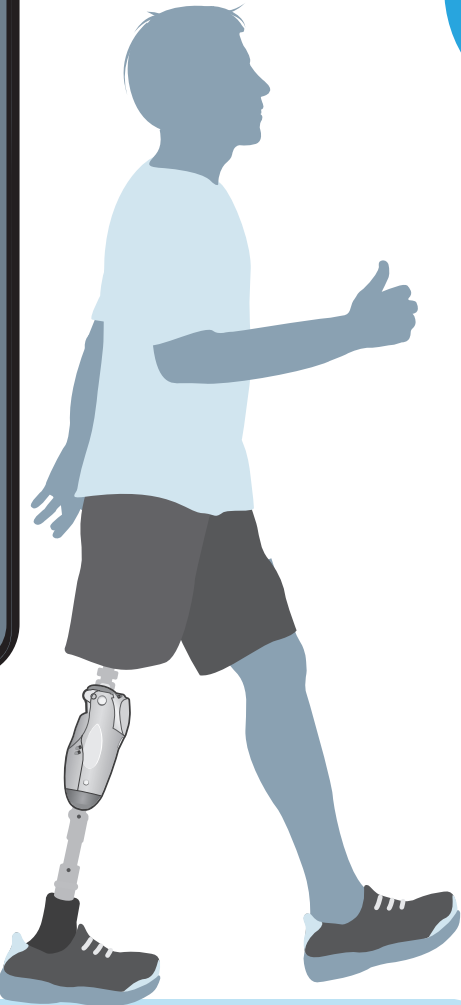
Effectuer les réglages de résistance avec une batterie complètement déchargée.

Autorisations

Configuration complète



Configuration terminée

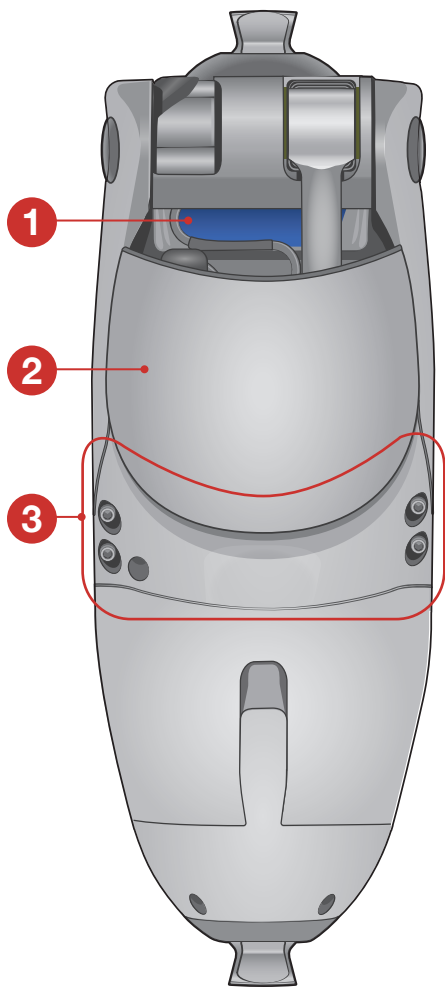


FRENCH

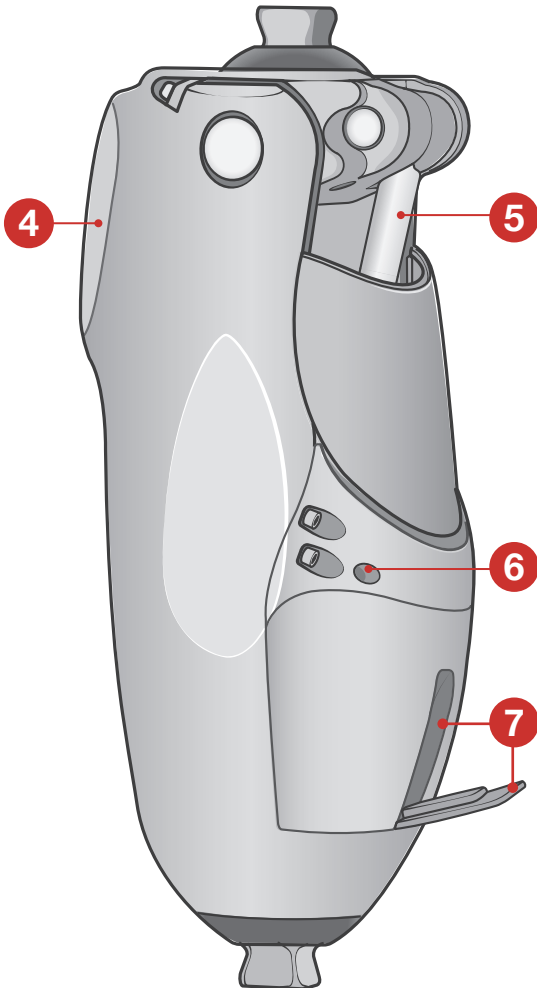
1

PROTEOR QUATTRO[®]

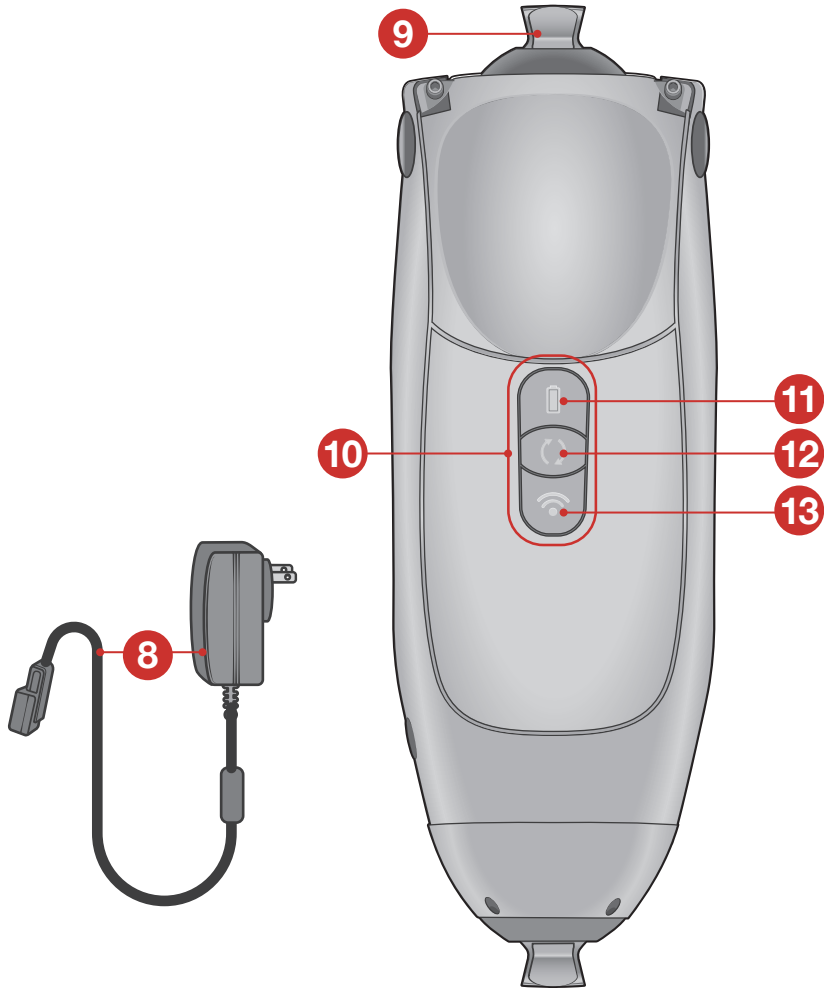
Rodilla con microprocesador



1. Limitador de ángulo de flexión
2. Cubierta trasera flexible
3. Tirante trasero



4. Rodillera sustituable
5. Eje del cilindro
6. Tornillo de ajuste de resistencia de batería muerta
7. Puerto de carga y cubierta antipolvo
8. Cargador de batería y cable



9. Adaptador piramidal
10. Teclado

Botón	Estado	Nivel de carga	Descripción LED	Botón LED	
11 Estado de batería	Totalmente cargada	51–100 %		Verde fijo	
	Cargada	21 %–50 %		Verde parpadeante	
	Nivel bajo	11–20 %		Rojo fijo	
	Nivel muy bajo	1–10 %		Rojo parpadeante	
	Reiniciar rodilla	Mantener presionado 6 segundos		Azul parpadeante	
Botón	Función	Estado	Descripción LED	Blanco fijo	
12 Cambiarmodo	Comprobar actividad Pulsar y soltar	Desbloqueado	Caminar: Actividad alternativa:	Blanco parpadeante lento	
		Bloqueado		Blanco parpadeante rápido	
	Activar/desactivar bloqueo Pulsar dos veces	Bloqueo activado			
		Bloqueo activado con nivel de batería muy bajo			
		Bloqueo desactivado	La actividad LED anterior vuelve a comenzar		
	Cambiar entre Caminar y actividad Alternativa Pulsar prolongadamente	Actividad actual: Caminar			
		Actividad actual: alternativa			
		Actividad actual: Caminar La actividad alternativa no está activada en la aplicación del paciente o no es seguro cambiar de actividad			
Botón	Función	Descripción	Descripción LED		
13 Inalámbrico	Emparejar con rodilla	Se empareja con el dispositivo	Ninguna		

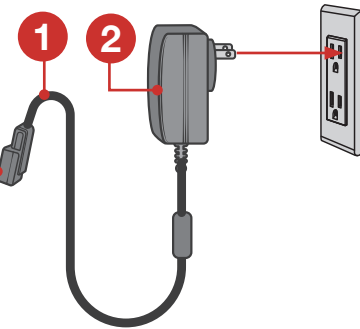
2 PARA COMENZAR

Active la rodilla

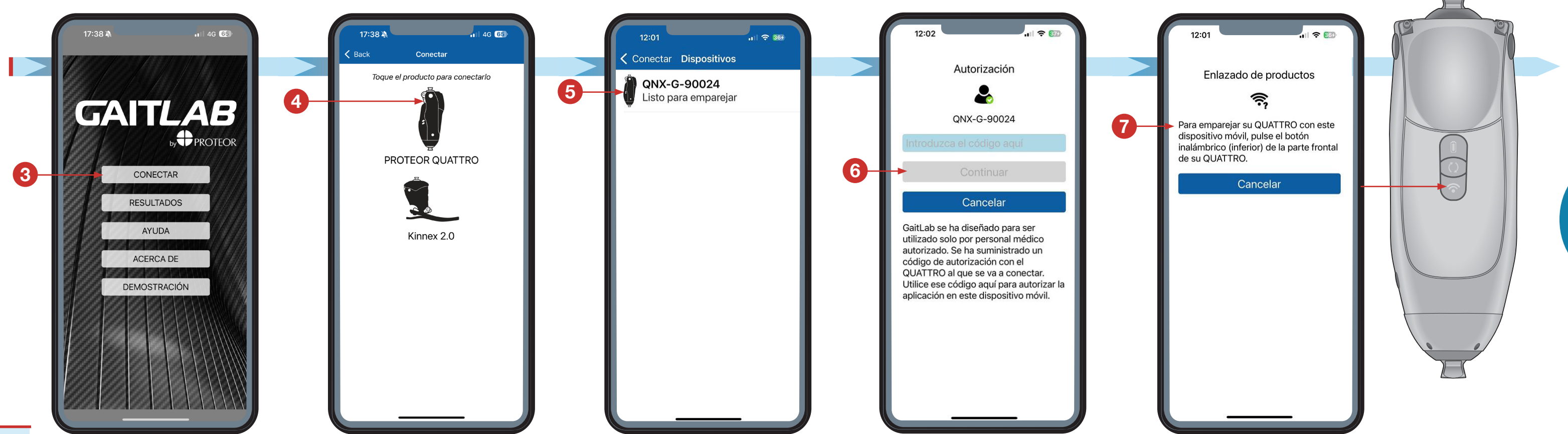
La rodilla QUATTRO se entrega en **Modo de almacenamiento**. La rodilla no funcionará (ni se activará) hasta que se conecte a una fuente de alimentación.

Para activar la rodilla:

1. Introduzca el cable o el paquete de batería de refuerzo cargado en el puerto del cargador.
2. Introduzca el cargador en una fuente de alimentación.



Conéctela

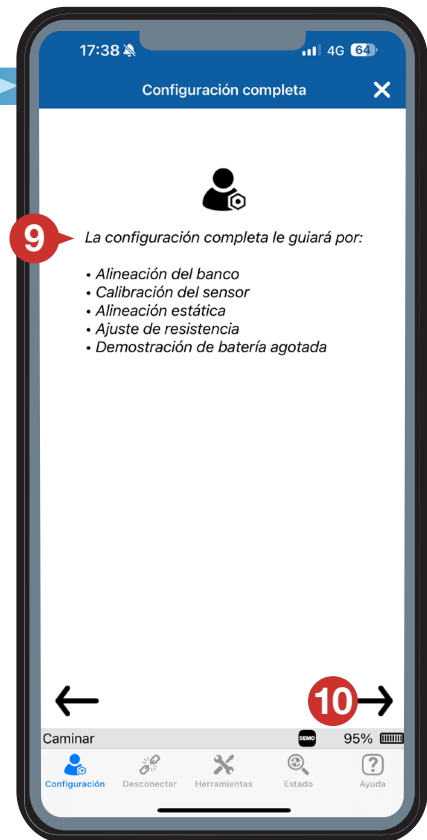
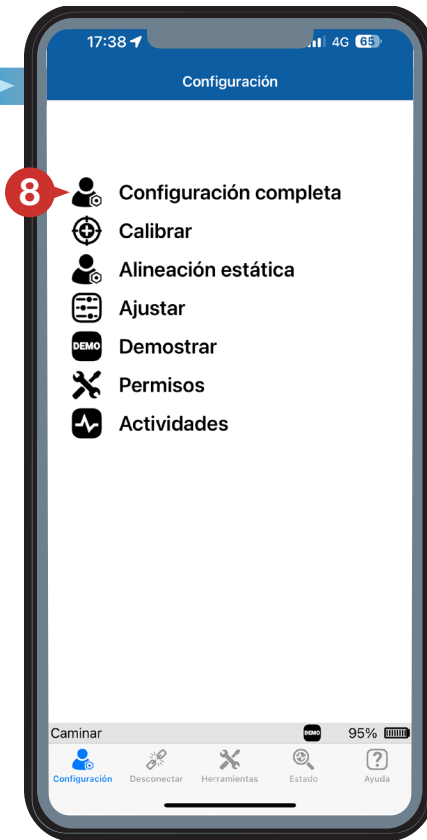


¡IMPORTANTE!

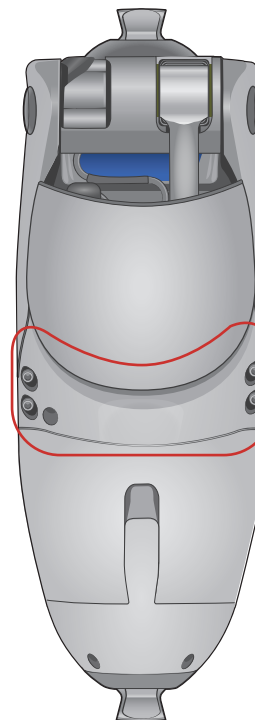
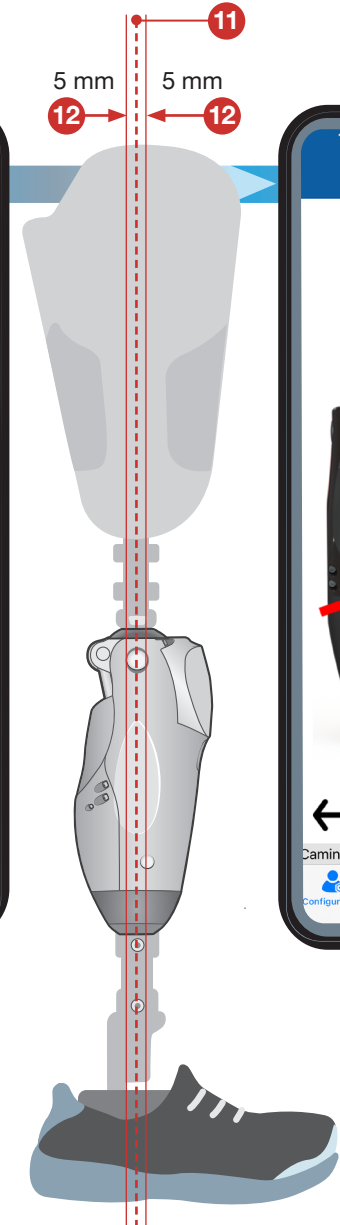
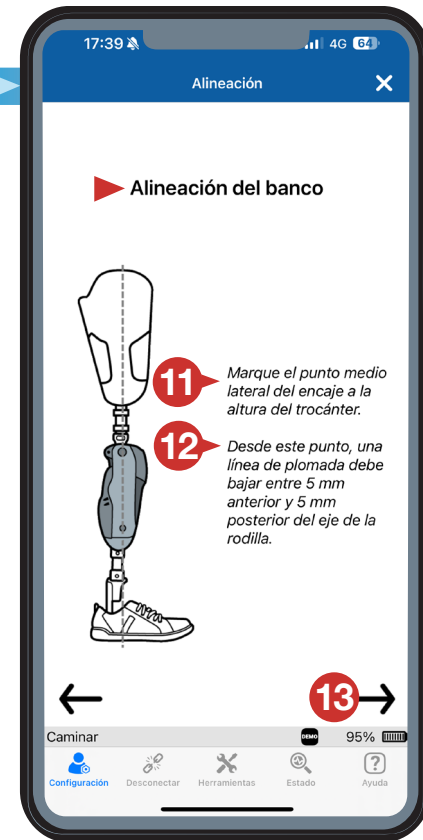
- No deje la rodilla sin supervisión. La batería se descargará si está inactiva.
- Para prolongar la vida útil de la batería, ponga la rodilla en **Modo de almacenamiento** manteniendo pulsados los botones **Cambiar modo** e **Inalámbrico** hasta que parpadeen en rojo, blanco y azul
- Debe disponer de la fuente de alimentación adecuada para activar la rodilla antes de ponerla en **Modo de almacenamiento**.

3 CONFIGURACIÓN COMPLETA DE QUATTRO®

Configuración



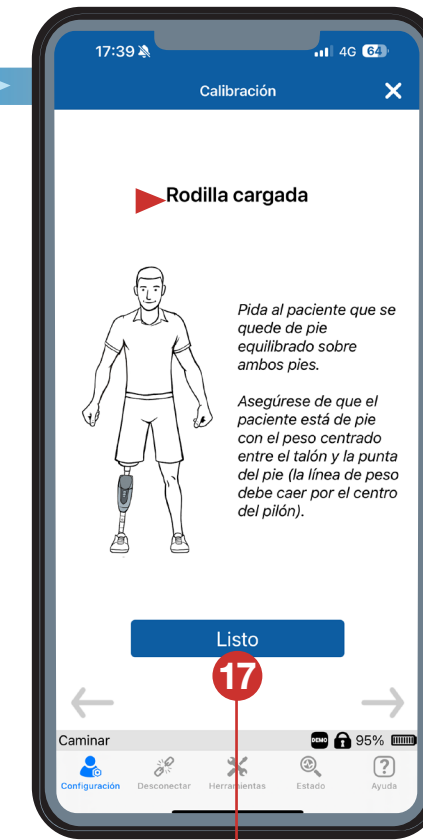
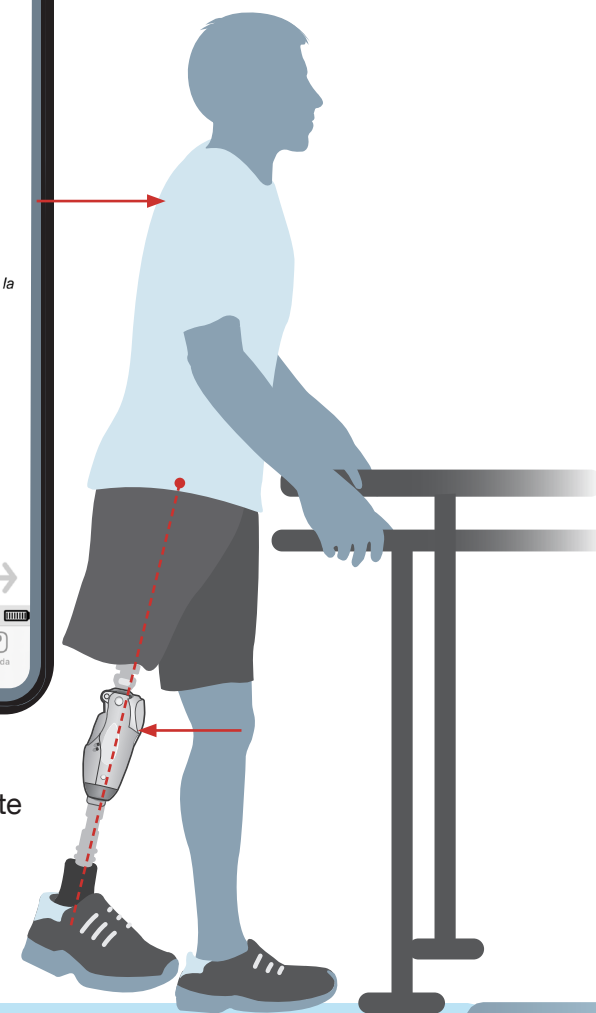
Alineación



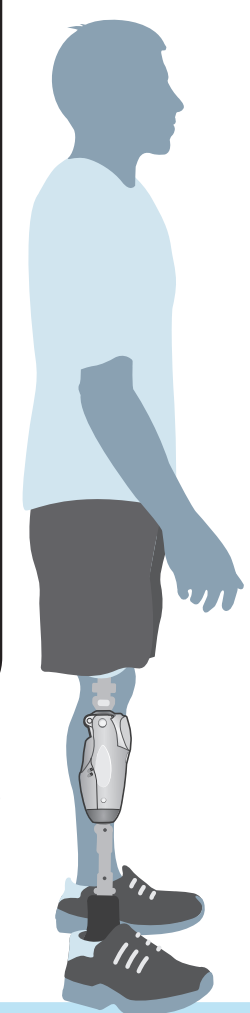
Calibración

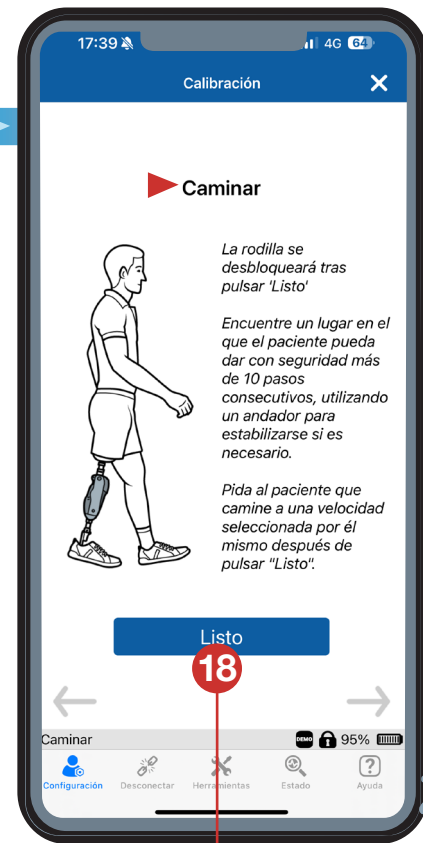


Pulse **Ready (Listo)** después de que el paciente esté en posición

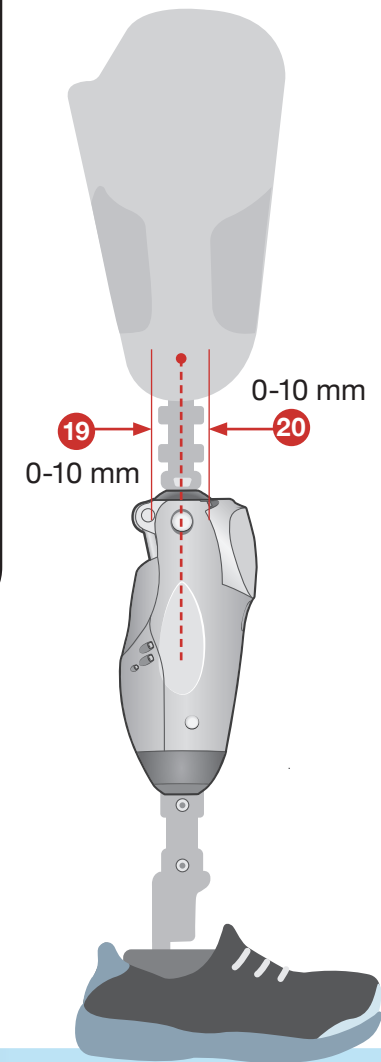
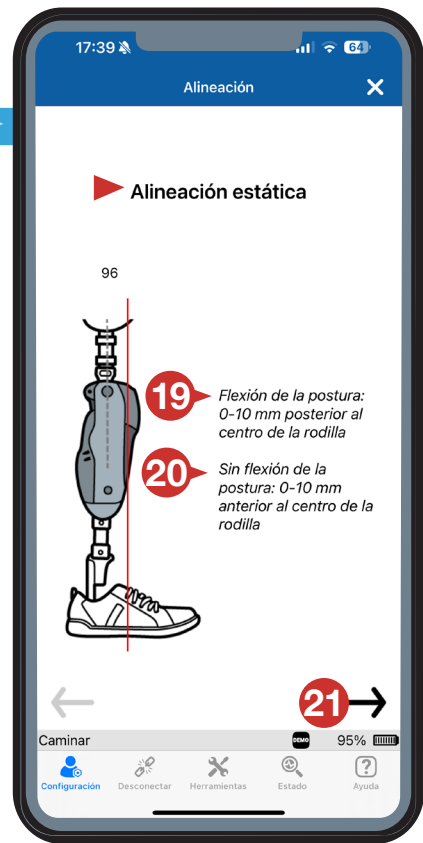
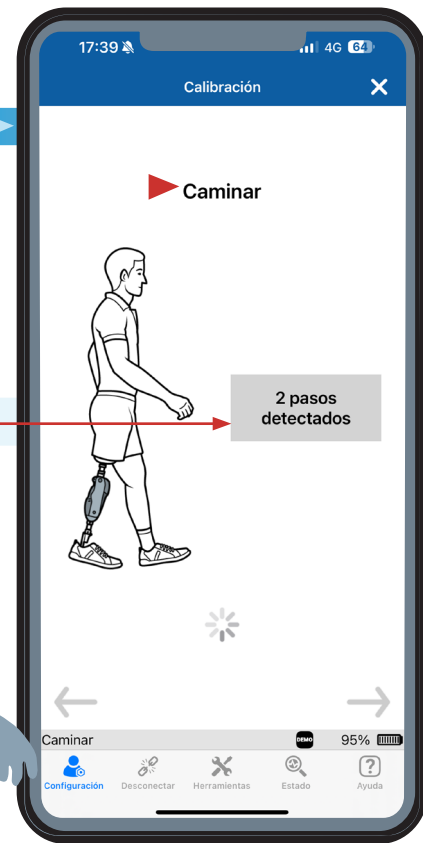


Pulse **Ready (Listo)** después de que el paciente esté en posición





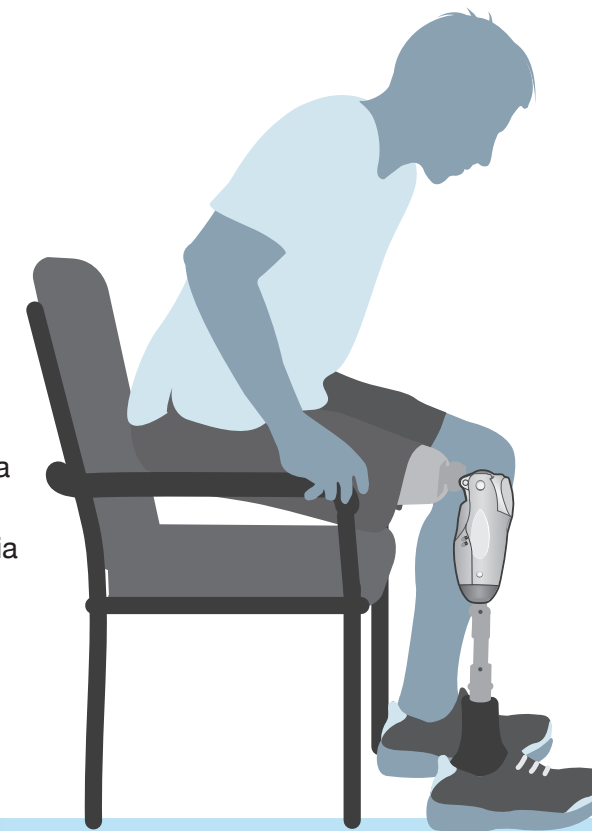
Pulse **Ready** (Listo) **antes** de que el paciente empiece a dar pasos



Alineación



Ofrece resistencia a la flexión al estar **sentado**.



Controla la resistencia a la elevación del **talón**.



- Cuando hay retardo debido a una alta resistencia
- + Cuando hay rapidez debido a una baja resistencia

- Aumenta la elevación del talón
- + Reduce la elevación del talón

¡CONSEJO!

Desplácese hacia abajo para ver ajustes adicionales



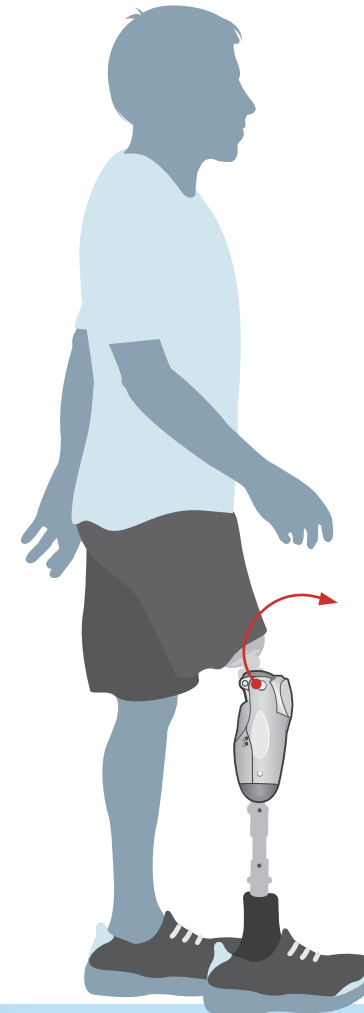
Controla la resistencia a la extensión de oscilación.



- Para reducir la resistencia
- + Para aumentar la resistencia



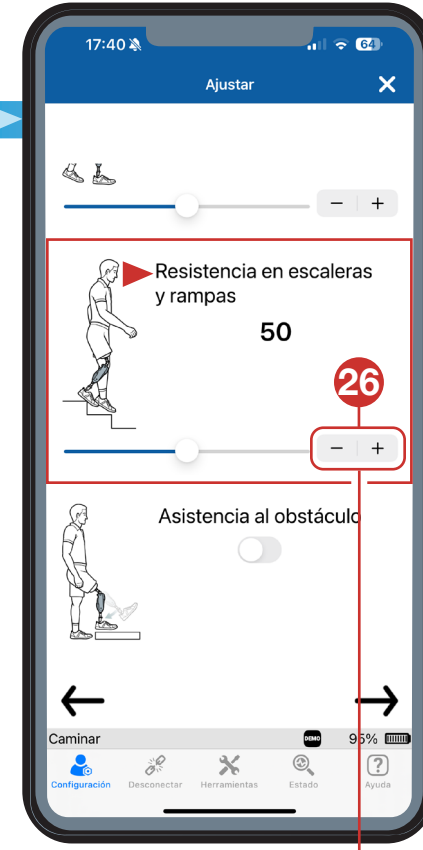
Controla la resistencia a la extensión de apoyo.



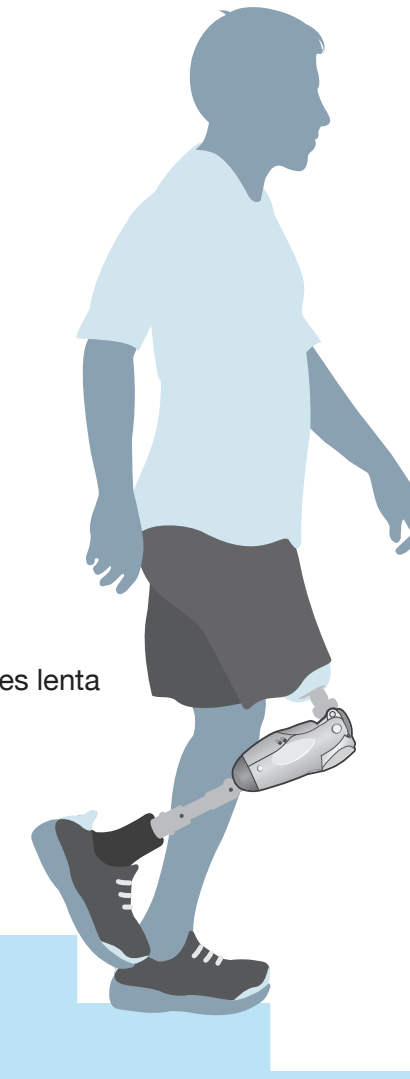
- Para reducir la resistencia
- + Para aumentar la resistencia

OBSERVACIÓN

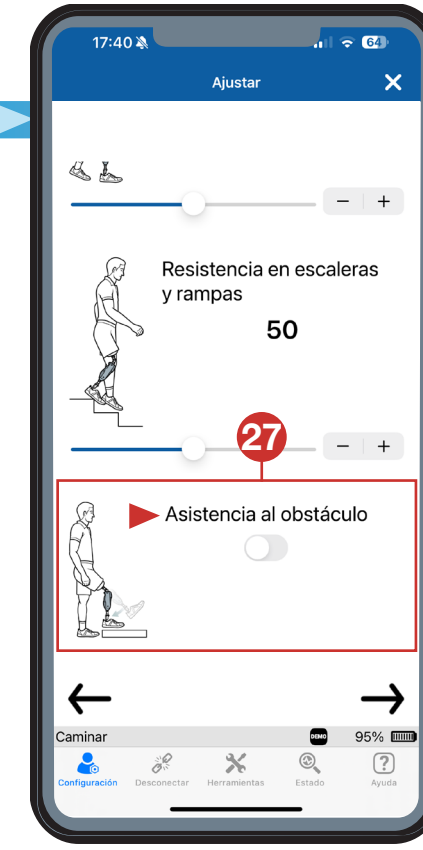
Solo se ajusta al caminar con flexión de apoyo.



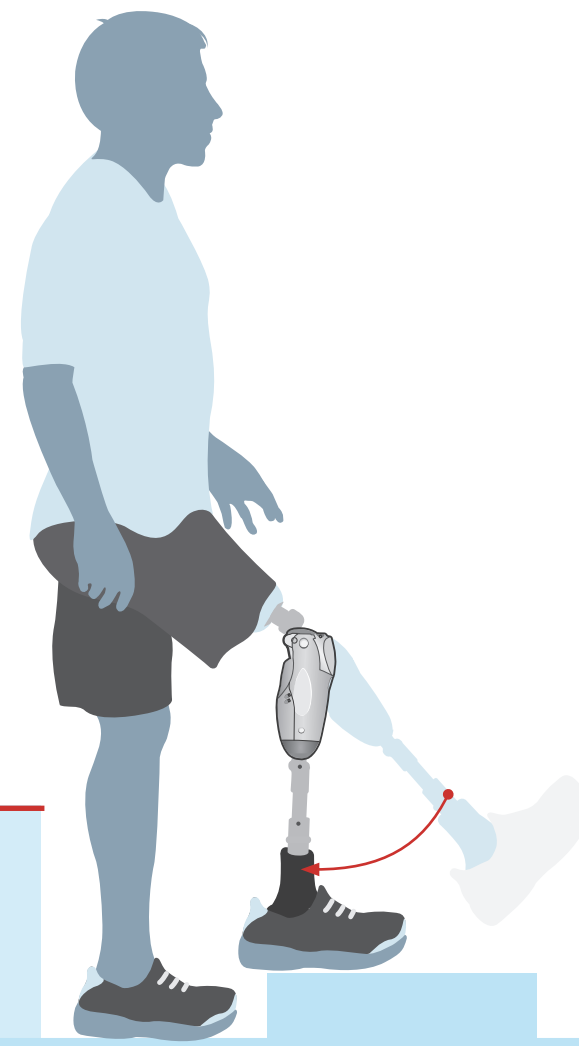
Ofrece resistencia independiente para bajar escaleras y rampas.



- Cuando la flexión de la rodilla es lenta debido a una alta resistencia
- + Cuando la flexión de la rodilla es rápida debido a una baja resistencia



Ofrece ayuda en caso de obstáculos.



OBSERVACIÓN

Si desactiva el **Modo sentado**, también se desactivará la **Asistencia de obstáculos**.

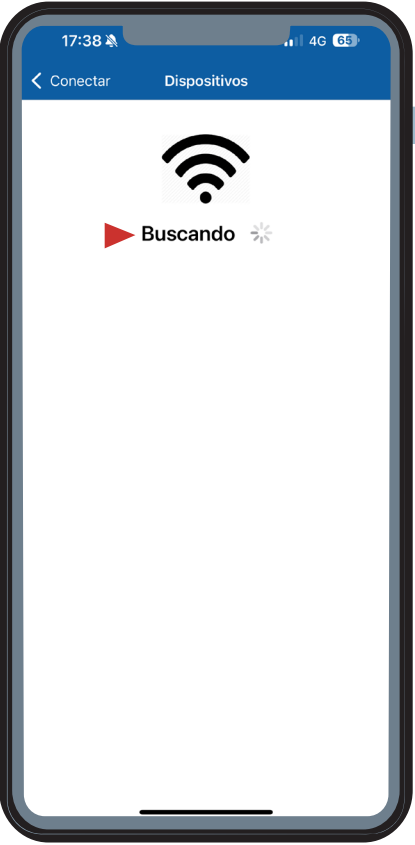
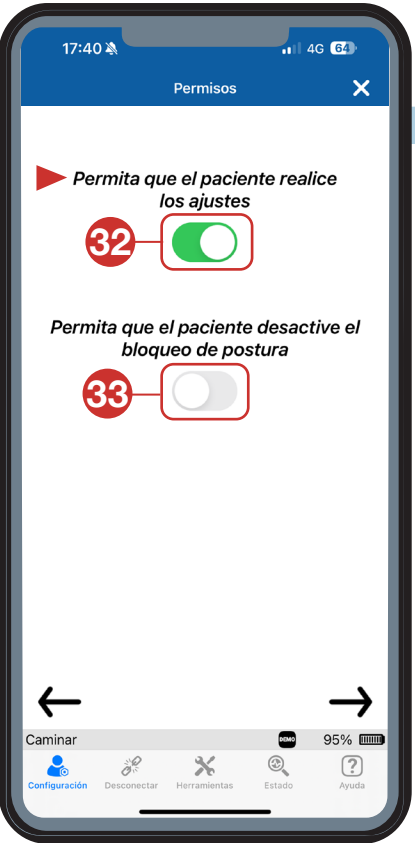
Demostración

Cuando el **Bloqueo de flexión** está activado, la flexión se bloquea pero es posible extender lentamente la articulación hasta estirla completamente.



Permisos

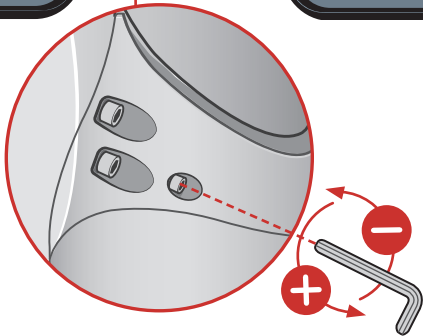
Configuración completa



Configuración completada

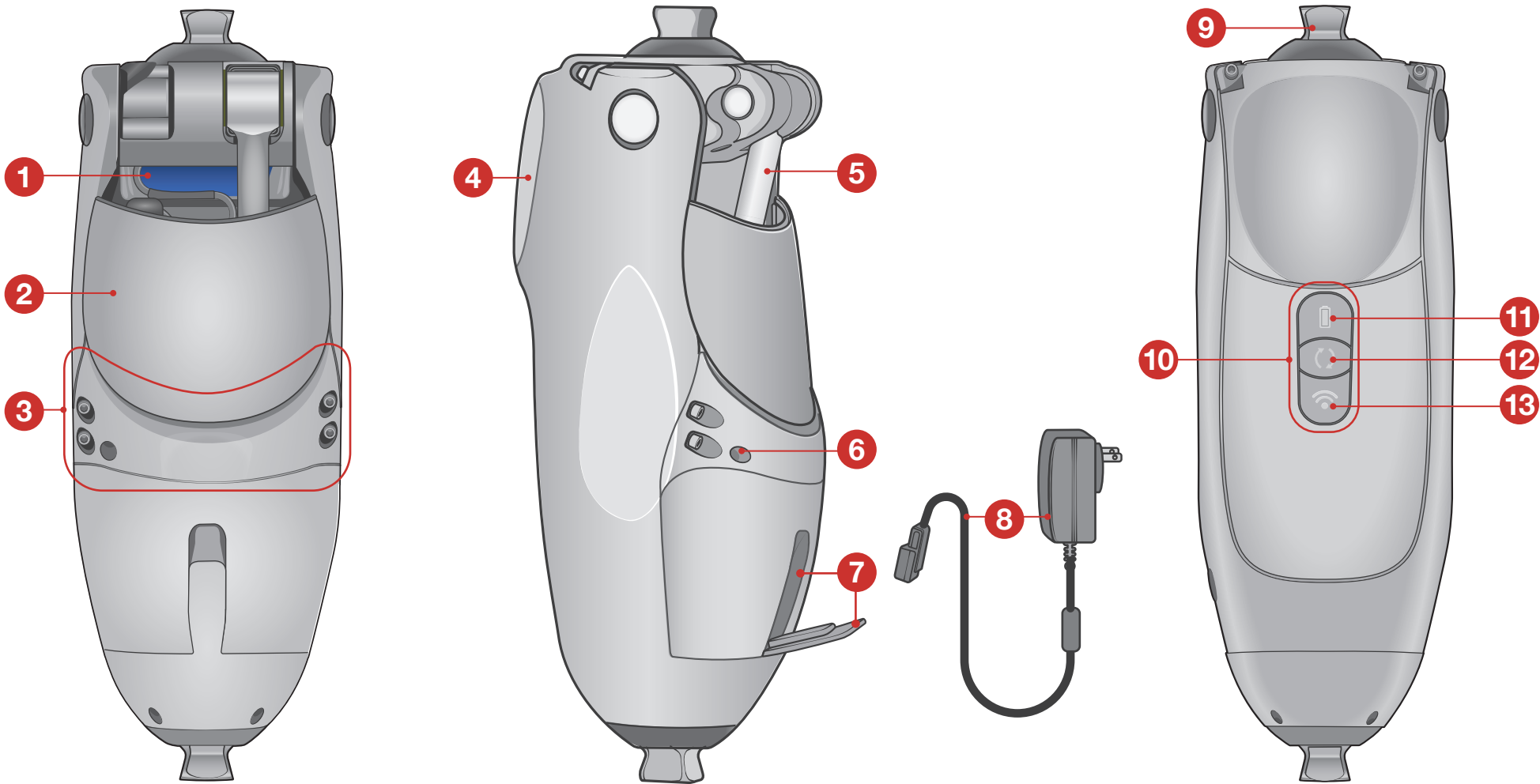


SPANISH



PROTEOR QUATTRO®

Mikroprozessor-Knie



1. Flexionsbegrenzer

2. Flexible rückseitige Abdeckung

3. Hintere Verstärkung
4. Auswechselbare Knieschutzkappe

5. Hydraulikkolben

6. Einstellschraube für „Power-Off“ Beugewiderstand

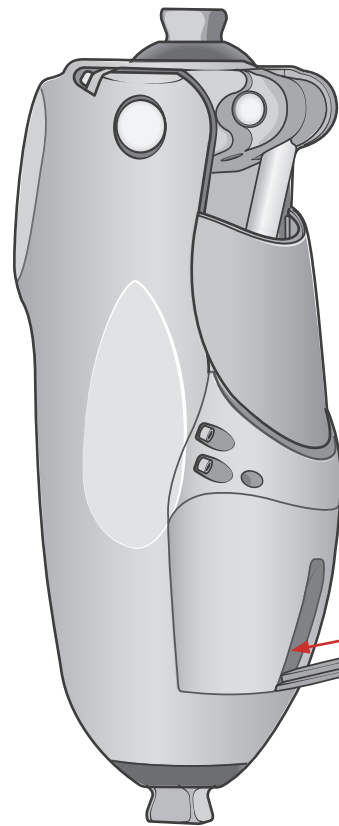
7. Ladeanschluss und Staubschutz

8. Ladegerät und Kabel

Schaltfläche	Status	Ladezustand	LED-Beschreibung
11 Akku status 	Vollständig geladen	51–100%	
	Geladen	21%–50%	
	Niedrig	11–20%	
	Sehr niedrig	1–10%	
	Neustart des Knies	6 Sekunden gedrückt halten	 
Schaltfläche	Funktion	Status	LED-Beschreibung
12 Modus wechseln 	Modus prüfen Drücken und loslassen	Entsperrt	Gehen:  „Wechseln“: 
		Gesperrt	
	Sperrre aktivieren/ Sperrre aufheben Zweimal drücken	Sperrre aktiviert	
		Sperrre aktiviert, bei sehr niedrigem Akkustand	
		Sperrre deaktiviert	Vorhergehende LED Modus wird fortgeführt
	Zwischen Gehen und „Wechseln“ umschalten Langes Drücken	Aktueller Modus: Gehen	
		Aktueller Modus: „Wechseln“	
		Aktueller Modus: Gehen „Wechseln“ der Aktivitäten (Moduswechsel) nicht in Anwender-App aktiviert oder ein Wechsel ist derzeit nicht sicher	 
Schaltfläche	Funktion	Beschreibung	LED-Beschreibung
13 Drahtlos 	Emparejar con rodilla	Se empareja con el dispositivo	Ninguna

LED-Anzeige	
Dauerhaft grün	
Grün blinkend	
Dauerhaft rot	
Rot blinkend	
Schnell blinkend	
Dauerhaft weiß	
Langsam weiß blinkend	
Schnell weiß blinkend	

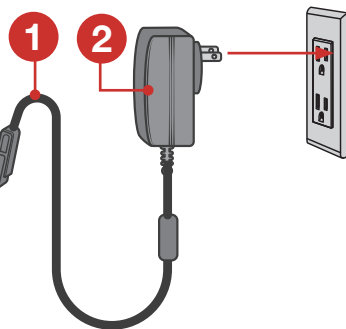
Knie aktivieren



Das QUATTRO-Knie wird im **Passivmodus** ausgeliefert. Das Knie funktioniert nicht (oder wird nicht aktiviert) bevor es mit einem Stromanschluss verbunden ist.

Zur Aktivierung des Knies:

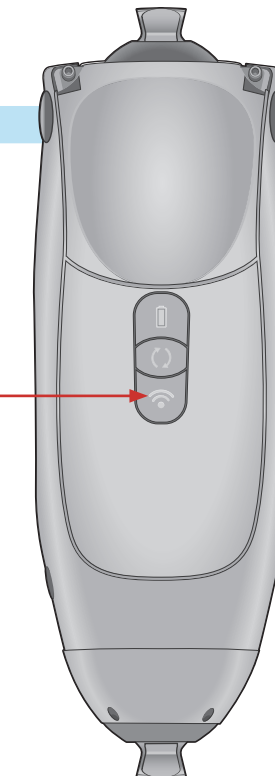
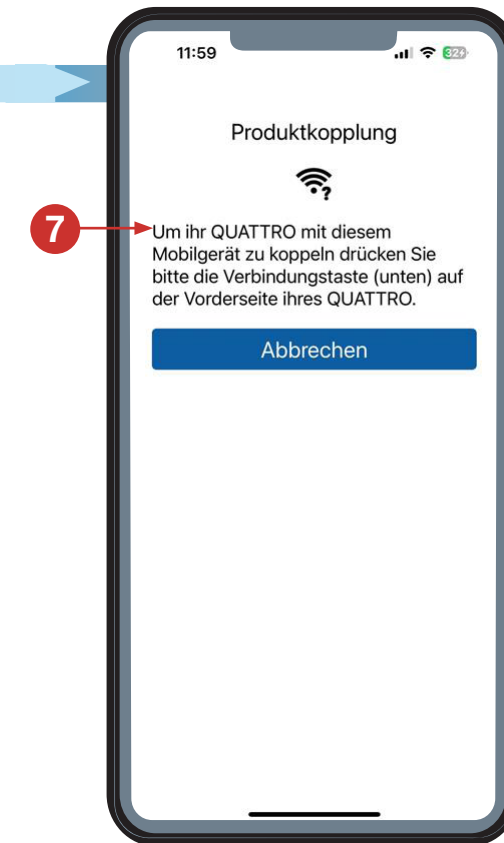
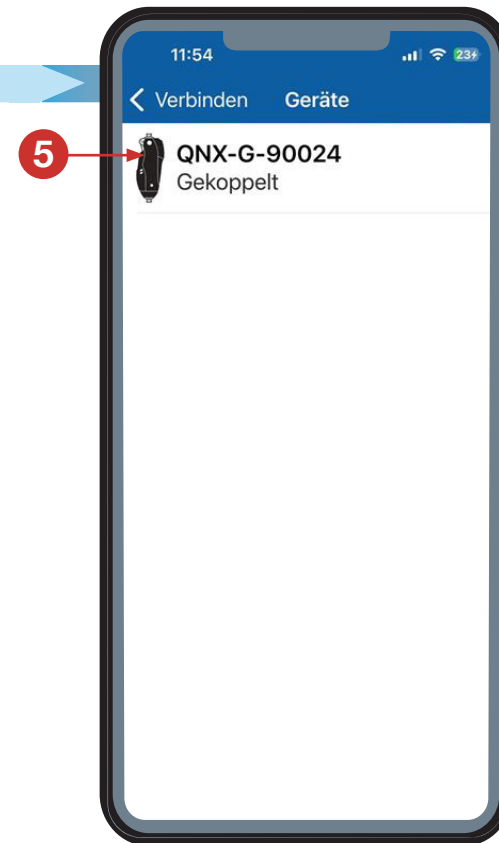
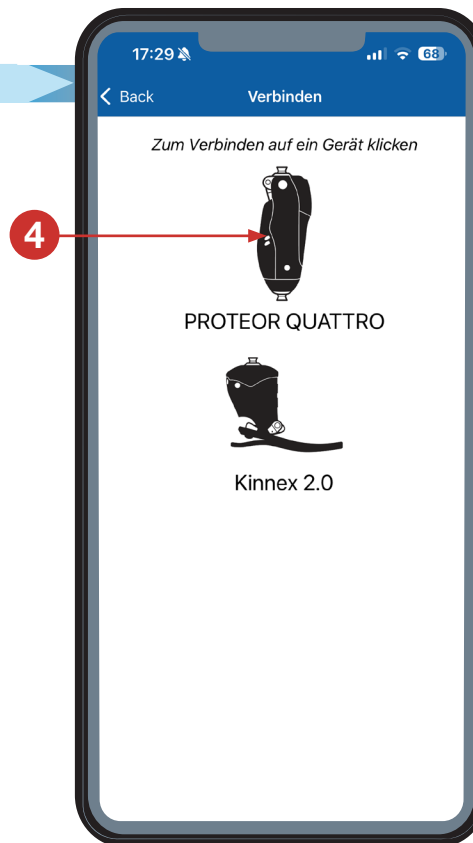
1. Stecken Sie das Kabel oder den geladenen Booster-Akkupack in den Ladeanschluss.
2. Stecken Sie das Ladekabel in eine Steckdose.



WICHTIG!

- Lassen Sie das Knie nicht unbeaufsichtigt. Der Akku entlädt sich im Ruhezustand.
- Zur Verlängerung der Akkubetriebsdauer, versetzen Sie das Knie in den **Passivmodus** indem Sie die beiden Tasten **Modus wechseln** und **Drahtlos** drücken und gedrückt halten, bis sie rot, weiß und blau blinken.
- Vergewissern Sie sich, dass Sie über die passende Stromquelle zur Aktivierung des Knies verfügen, bevor sie das Knie in den **Passivmodus** versetzen.

Verbinden

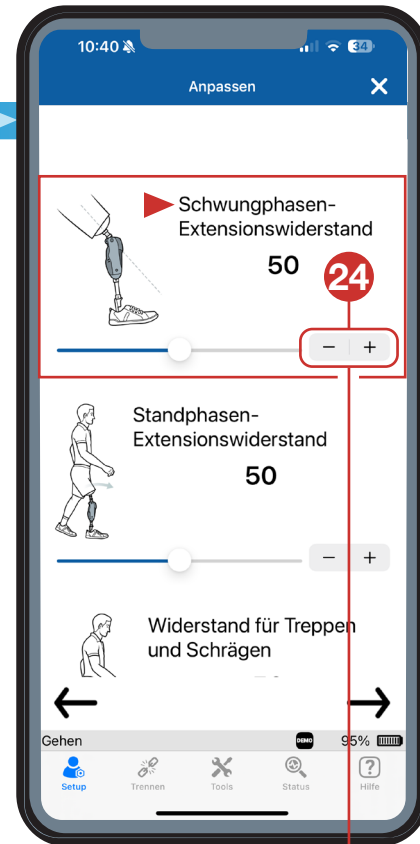


Einrichtung

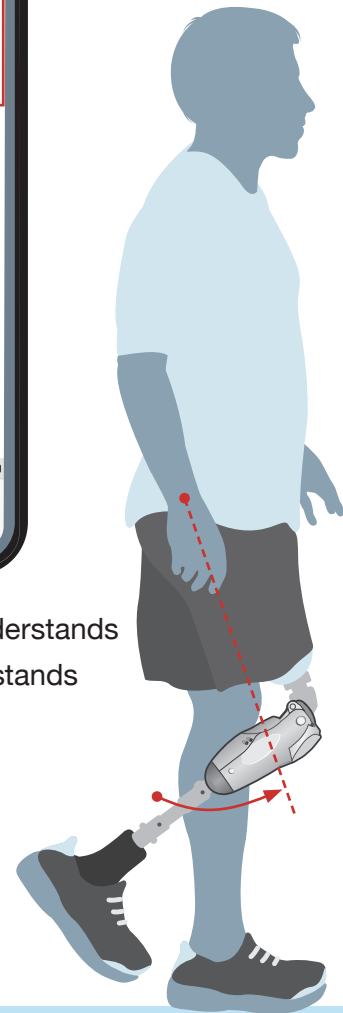
Aufbau



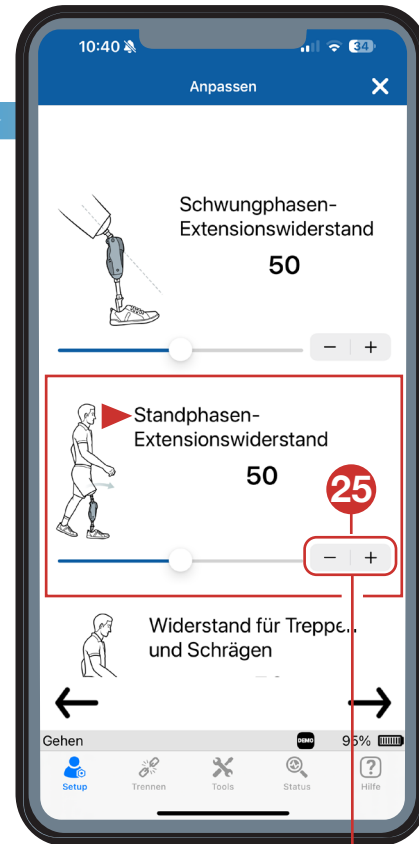
GERMAN



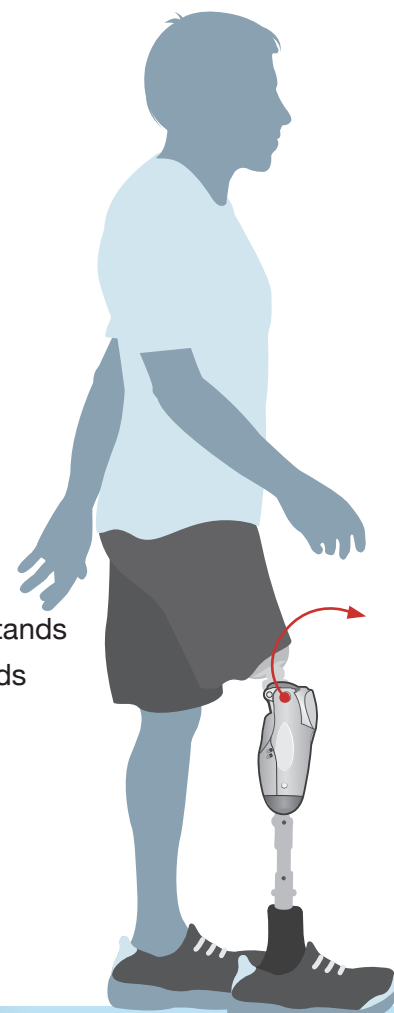
Steuert **Streckungswiderstand** in der **Schwungphase**.



+ Zur Verringerung des Widerstands
 - Zur Erhöhung des Widerstands



Steuert **Streckungswiderstand** in der **Standphase**.



- Zur Verringerung des Widerstands
 + Zur Erhöhung des Widerstands

HINWEIS

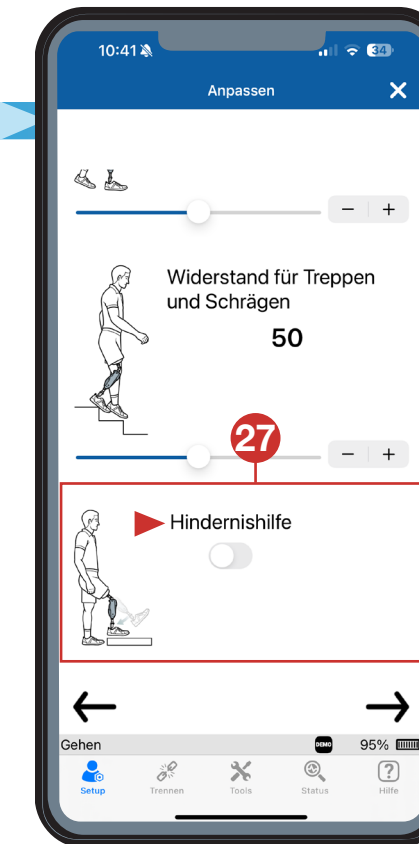
Wird nur beim Gehen mit **Standphasenbeugung** angepasst.



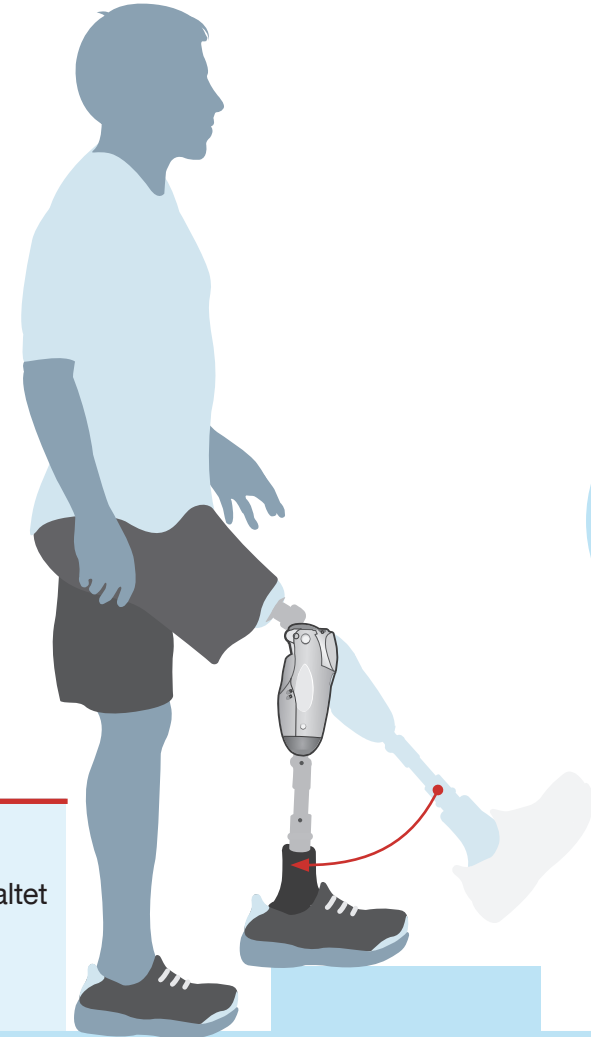
Bietet unabhängigen Widerstand für **Bewältigung** von **Treppen und Schrägen**.



- Wenn die Kniebeugung durch hohen Widerstand verzögert ist
 + Wenn die Kniebeugung durch geringen Widerstand schnell ist



Hilft bei der Bewältigung eines **Hindernisses**.



HINWEIS

Wenn der **Sitzmodus** ausgeschaltet ist, wird auch die **Hindernishilfe** deaktiviert.

Demonstration

Wenn die **Beugungssperre** aktiviert ist, blockiert sie die Beugung, erlaubt aber das stufenweise Strecken bis zur vollen Streckung.

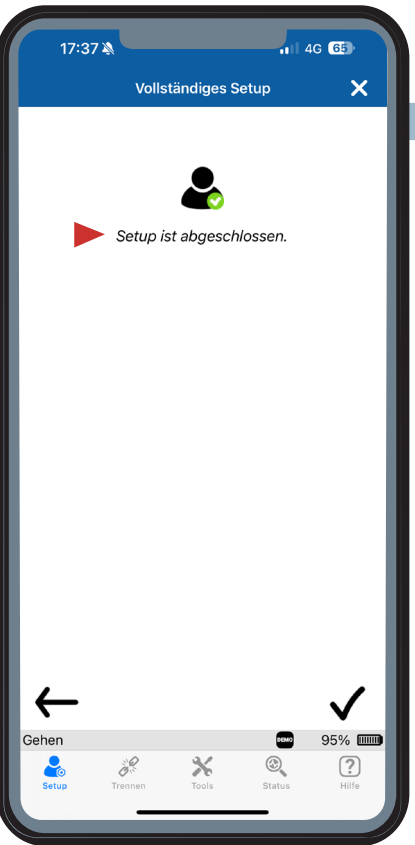
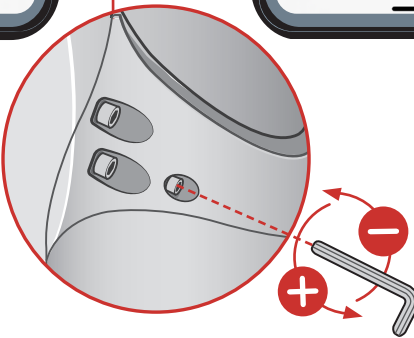
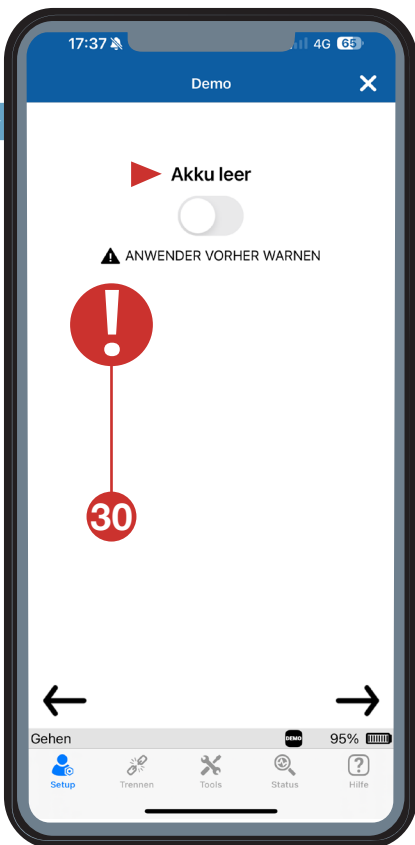
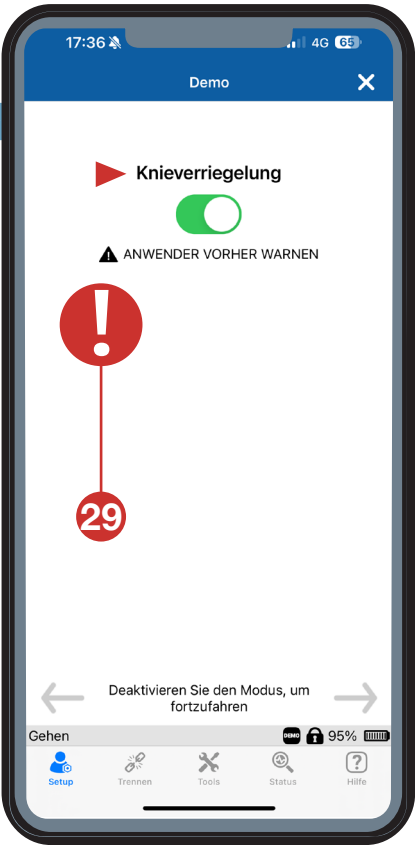
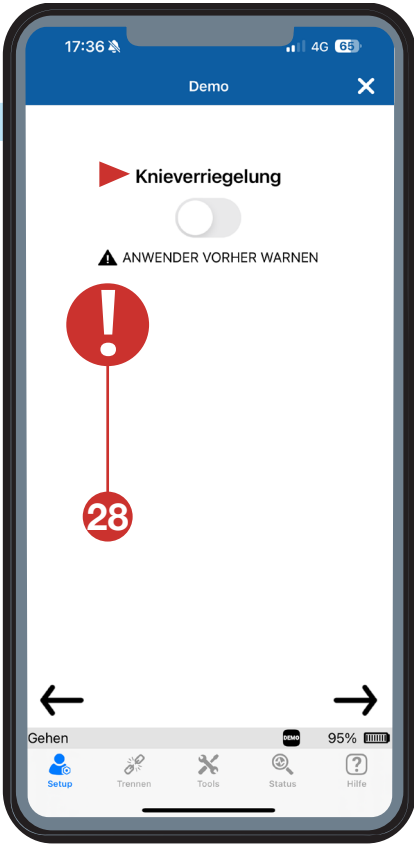
Demonstration und Anpassung

Führen Sie Widerstandsanpassungen bei vollständig entladem Akku durch.

Berechtigungen

Vollständige Einrichtung

Einrichtung abgeschlossen



GERMAN

PROTEOR
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MICROPROCESSOR KNEE

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- ▶ QUATTRO Ressources
- ▶ QUATTRO Ressourcen
- ▶ QUATTRO Recursos