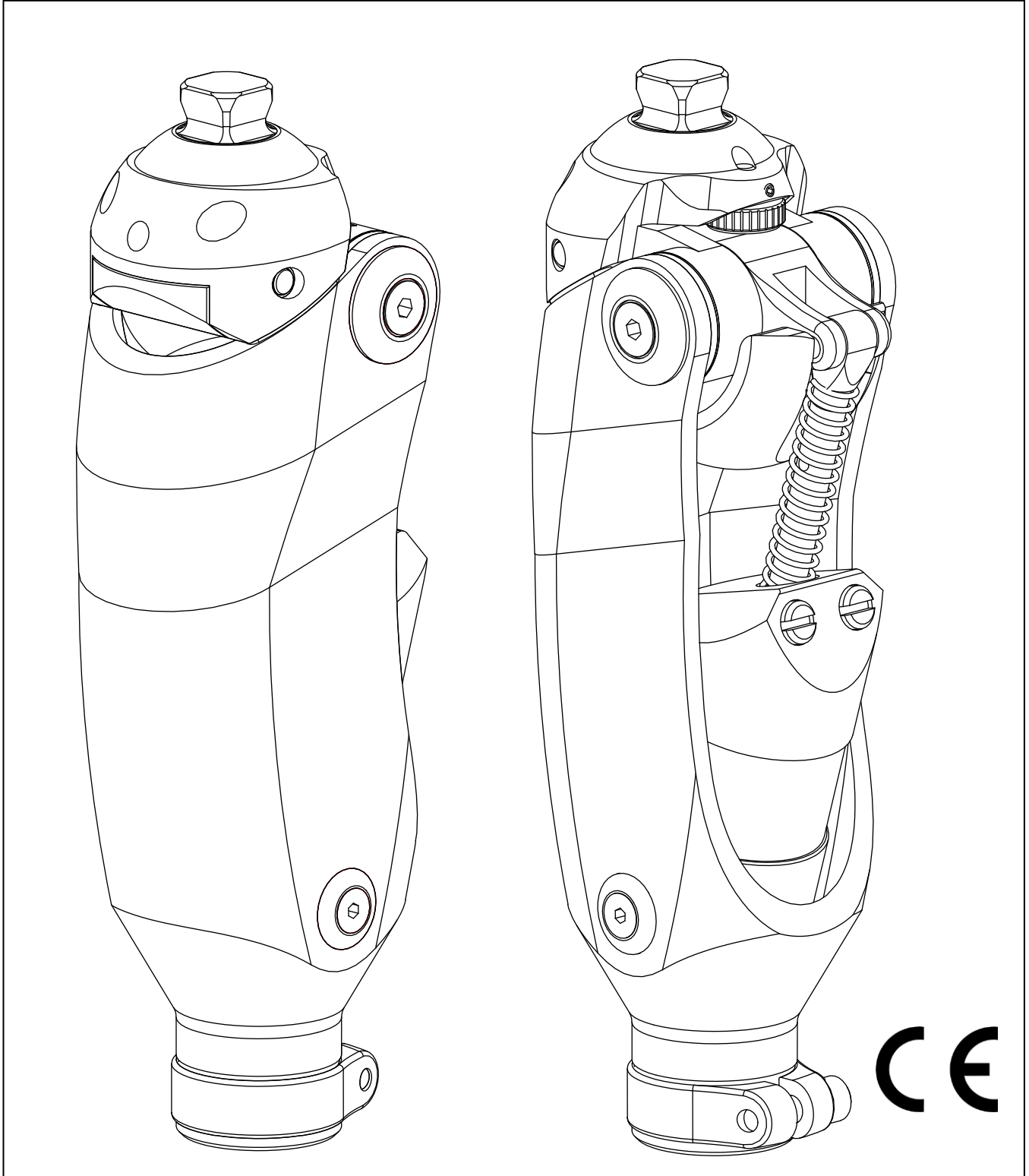


LAPOC

M0771 Weight Stabilizing Knee “P-BASS”

equipped with pneumatic cylinder for swing-phase control

Instruction manual



■ Foreword

We would like to thank you for using our products.

This manual describes product handling, adjustments, precautions, etc. in order to ensure safe use for the lifetime of the product.

Before use, be sure to read the manual thoroughly in order to use the product safely and appropriately.

After reading the manual, remember to store it in a place easily accessible to the user. If there are problems during normal use, be sure to check the manual for confirmation.

CAUTION

Do not use the product beyond its normal useful life for the following reason:

This may lead to problems such as damage to the part or other parts.

Law to Support Independence of Persons with Disabilities specifies the useful life of individual parts.

For the part that exceeds its useful life, advise users to contact an orthotist for consultation. For faulty parts during useful life, perform service application procedures in order that repairs or adjustments may be made by our company.

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■ Safety precautions

- Before use, read the "Safety precautions" carefully for proper use.
- What is given here shows important instructions on safety. Be sure to follow them.
- Symbols and their meanings are as follows:

WARNING

In the event of a failure or anomaly:

No repair, modification, or disassembly should be carried out.

This may cause trouble.

A request for inspections or repairs should be made to us.

When used:

Make sure that a user firmly maintains stability of prosthetic knee by sitting on a chair or holding on to parallel bars before the pneumatic cylinder is adjusted.

When the instability of prosthetic knee causes the knee joint to be bent while the pneumatic cylinder is being adjusted, fingers could get caught between the pneumatic cylinder and the knee frame, causing serious injury.

Make sure that a user firmly maintains stability of the prosthetic knee before an adjustment is made.

CAUTION

Do not use parts beyond their useful life.

This may result in damage to parts.

For the parts that are beyond their useful life, advise users to contact an orthotist for consultation.

All adjustments should be carried out by an orthotist.

An incorrect adjustment may cause trouble.

This instruction should be given to users as well.

Tighten individual bolts to the specified torque.

Tighten bolts to the specified torque using a torque wrench.

Avoid contact with water, sea water or other liquids.

This is to prevent trouble that may be caused by rust formation on parts.

This instruction should be given to users as well.

Before use, check to breakage of part, loosen of bolts.

This is to prevent the trouble during use.

If the trouble found, stop the use, and guide to talk to orthotist immediately.

If the breakage of part or the bolts loosen or abnormality, stop the use immediately.

If the trouble found or felt, stop to use, and guide to talk to orthotist immediately.

With the knee joint bent, never put hands between the knee joint and the vicinity of the extension stopper or the backward of the socket.

This is to prevent injury that may occur to fingers when they are caught.

This instruction should be given to users as well.

When stored:

Avoid contact with water, sea water or other liquids.

This is to prevent trouble that may be caused by rust formation on parts.

This instruction should be given to users as well.

In the event of a failure or anomaly:

When there is an anomaly such as looseness, abnormal noises, immediately contact an orthotist for consultation.

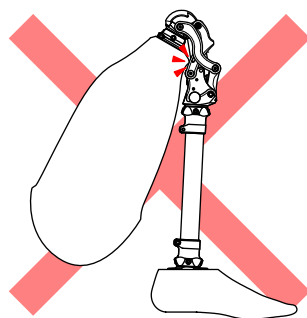
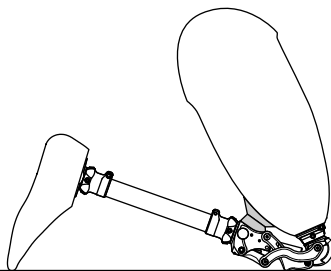
Neglecting looseness, abnormal noises, etc. may cause bodily injury or damage to parts, etc.

In the event of such problems, advise users to contact an orthotist for consultation

⚠ CAUTION

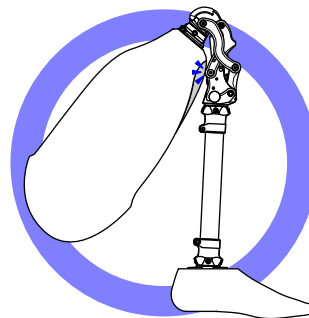
1. Heel Contact without full extension of the knee joint may cause knee-buckling.
2. If patient usually load on his prosthesis in maximum flexed position, put a shock reducing soft pads between socket and the knee (Fig. 7).

In case of maximum flexion of long stump, posterior end part of the socket may hit and damage the part or hydraulic cylinder (Fig. 8-a). If it is inevitable, please change the hitting point to distal part of the knee to reduce moment force. Use softer material and make a new hitting point at more proximal part of the socket (Fig. 8-b).



< Fig. 8-a Bad >

Fig.7



< Fig. 8-b Good >

Fig. 8

■ Indication

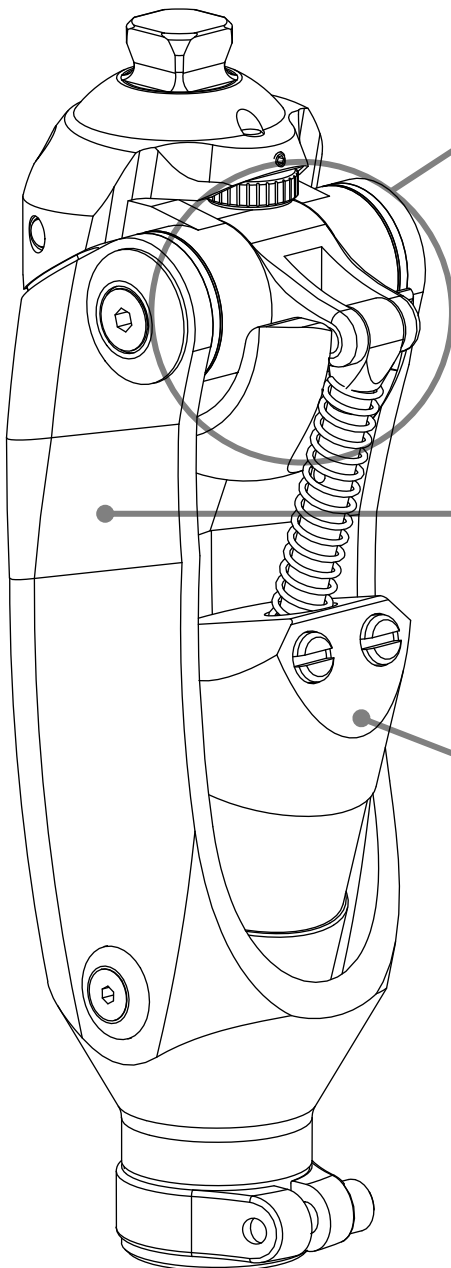
The knee is applicable for following patients.

	body weight	activity level
M0770 BASS	up to 100 kg(220 lbs)	low to moderate

Weight and Dimensions

	M0770 BASS
weight	690g(1.518lbs)
overall length	238mm
overall width	71mm
maximum flexion	180deg.

■ Features



① Mechanism of weight stabilizing

Center bush is divided into three pieces. Only center piece acts as breaking part to prevent knee buckling and pieces of bilateral end act as supporting part of body weight. By favor of this design, the knee function becomes more stable with increased durability than ordinary one.

② High strength/weight ratio

The strong CFRP knee frame realized light weight (690g: 1.518lb).

③ Pneumatic cylinder for swing phase control

The device allows easy and separate adjustment of extension and flexion resistance to meet proposed walking speed from very slow to very fast one.

■ Bench alignment

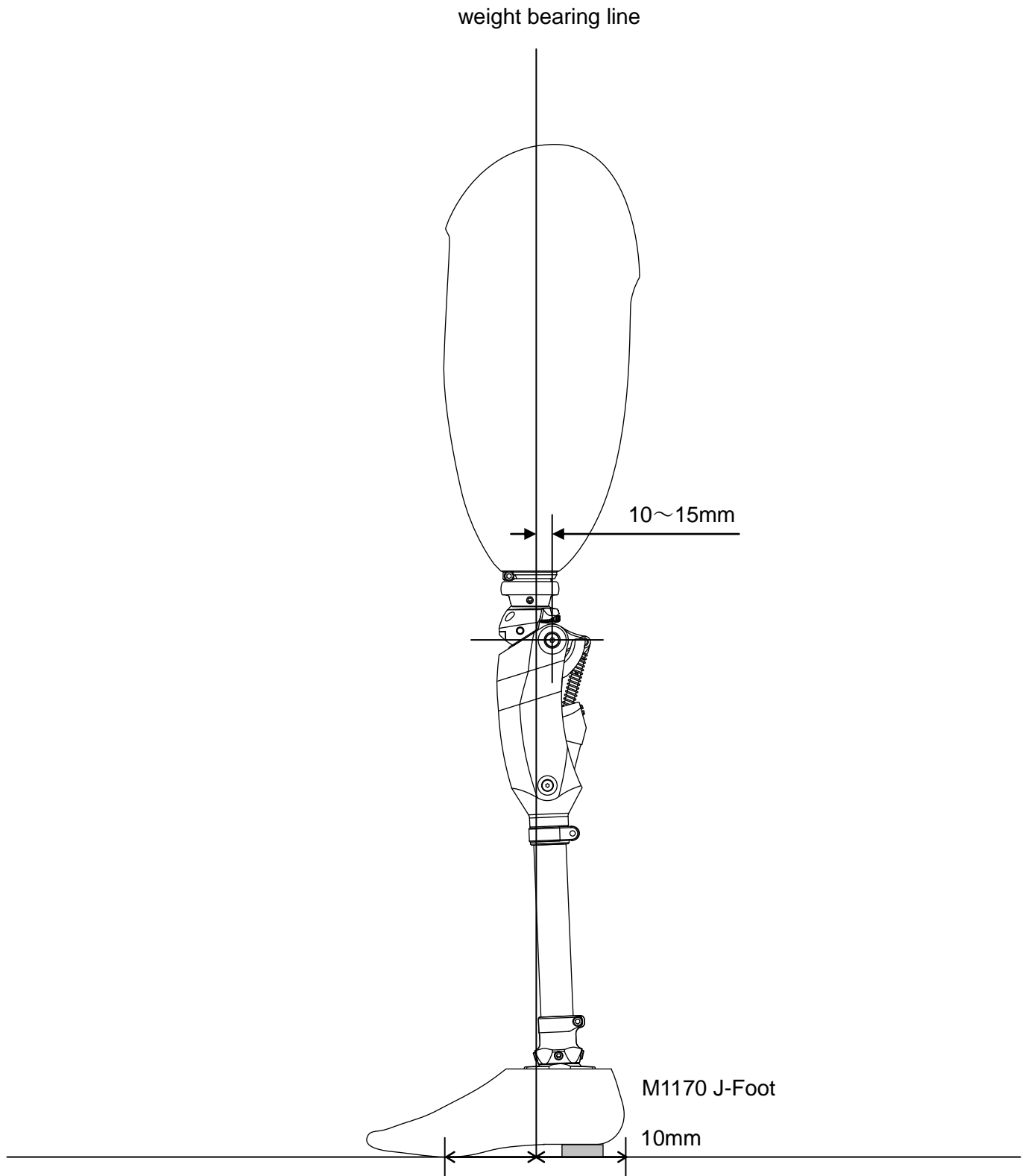


Fig. 1. Bench alignment

■ Suitable torques of screws to fix the limb structure

hexagonal socket head screw	M6	11.7~12.0Nm	5mm hexagonal wrench
hexagonal socket head screw	M8	15.0~16.0Nm	4mm hexagonal wrench

■ Dynamic alignment

■ Stability adjustment of break mechanism in stance-phase

- ① Loosen M3 fixation screw using attached 1.5mm hexagonal wrench (Fig. 2).

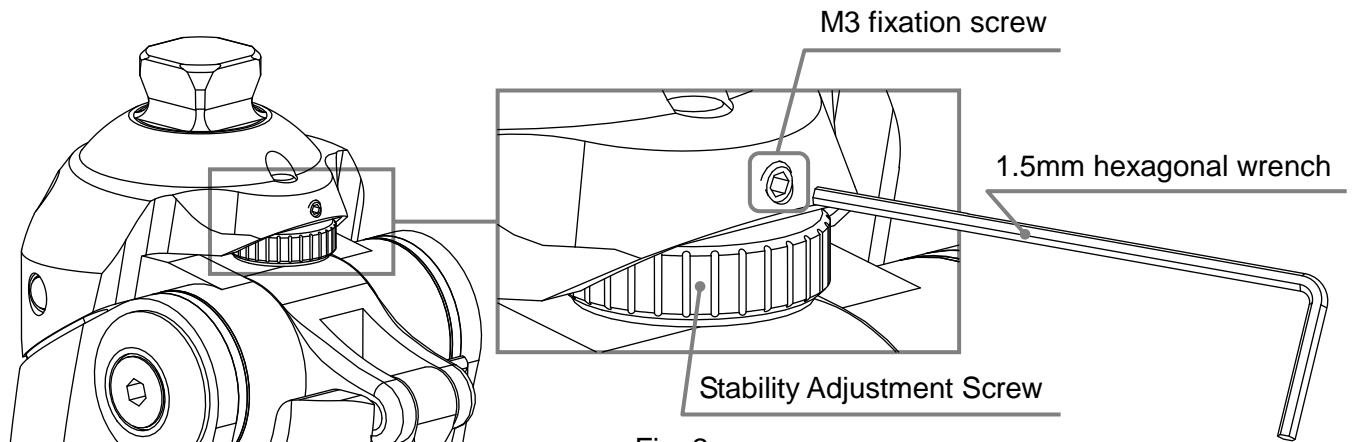


Fig. 2.

- ② Rotate Stability Adjustment Screw by thumb for proposed direction (Fig. 3).

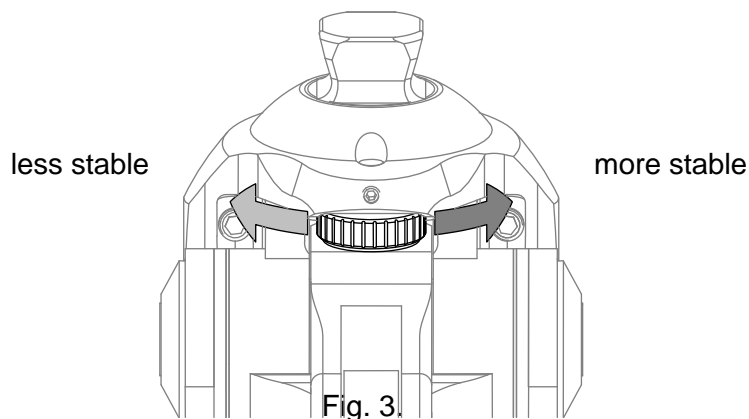


Fig. 3.

- ③ Retighten the M3 fixation screw.

※ Attention1: Too much stable knee may inhibit early knee flexion, thus obstruct smooth shift of the body for swing phase.

※ Attention2: Don't touch the fixation screw in front of the knee (Fig. 4).

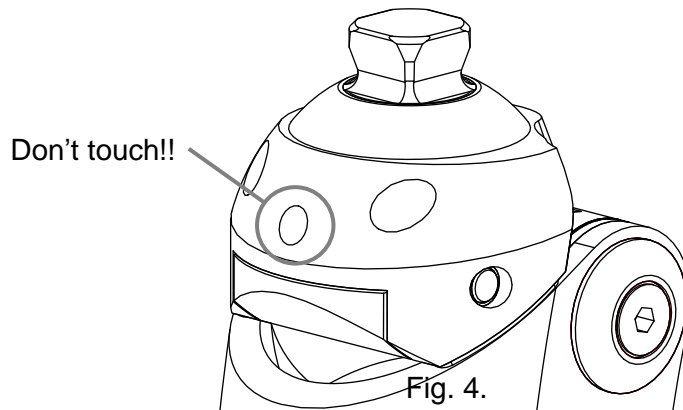
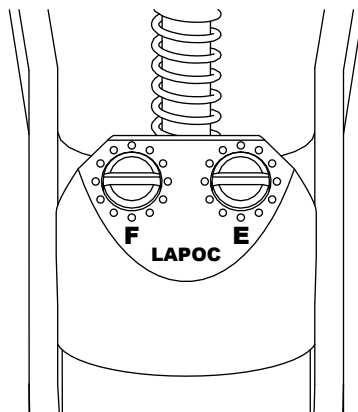


Fig. 4.

■ Adjustment of pneumatic cylinder for swing-phase control

□ Steps of adjustment



Clockwise rotation : increase flexion (extension) resistance
 Counter-clockwise rotation : decrease flexion (extension) resistance
 Fig. 5. Dial "F (E)" is for adjustment of flexion (extension) resistance.

- ① Start from adjustment of Dial F. Check the "heel rise" of walking patient at acceleration stage of swing phase, Rotate dial F 90 degree clockwise, check, and repeat same procedure. When nearly proposed resistance is attained, rotate a little bit for fine tuning.
- ② Then adjust dial E to minimize "terminal impact". Care must be taken not to inhibit the fully extension of the knee before heel contact.
- ③ If you want to repeat the whole procedure from the first, tighten the dials fully by clockwise rotation to the limit. Then release them **two and half turn** counter-clockwise. The cylinder recovers the mode of first setting before adjustment.

※ Attention3: Don't flex the knee when both dials are tightening fully. It may cause severe damage of pneumatic cylinder.

□ To take out the Extension-Aid Spring

- ① Extend the knee joint fully.
- ② Put the 2.5mm hexagonal wrench in the $\Phi 3\text{mm}$ hole (Fig. 6), and rotate the Cylinder Rod clockwise to loose out (Fig. 7).

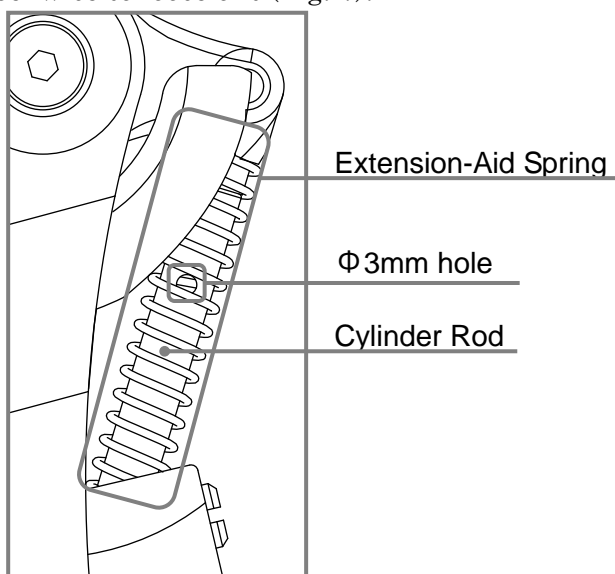
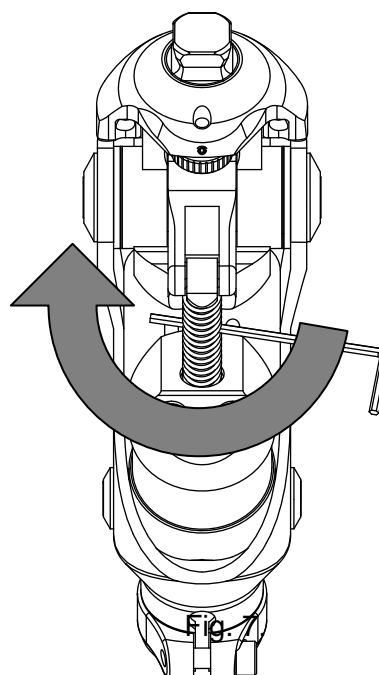


Fig. 6.



- ③ Take out the extension-aid spring.

■ Note

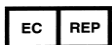
■ Note

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