

GERIMAC

FROM FILLAUER LLC



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GERIMAC KNEE

FROM FILLAUER LLC

The GeriMac knee is a single axis knee incorporating an automatic mechanical lock, allowing maximum stability by locking in the stance phase of gait and unlocking during the swing phase. The knee also features an adjustable stance flexion feature and mechanical friction to control the rate of swing of the prosthesis. A urethane extension assist can be utilized to help promote full extension, ensuring a fully locked and stable knee. The GeriMac has been designed for the geriatric population where stability and secure movement is a clinical necessity.



FEATURES

- Automatic Locking Mechanism
- Extension Assist
- Adjustable Stance Flexion
- Lightweight (13.6 ounces)
- 145° of Knee Flexion

BENEFITS

- Improved Locking Full Extension
- Absorbs Shock and Smooths Gait
- Maximum Stability

SPECIFICATIONS

Height: 3.94" / 10 cm

Product Weight: 13.6 oz / 385.6 g

Knee Flexion: 145°

Warranty: 1 Year Warranty

Pylon Size: 30mm

INDICATIONS

Amputees

Transfemoral (Above Knee)

Activity Level

K2, or Low K3

Weight Rating

Up to 175 lbs / 80 kg

CONTRAINDICATIONS

The GeriMac knee is *not recommended* for the following...

Amputees

Transtibial (Below Knee)

Activity Level

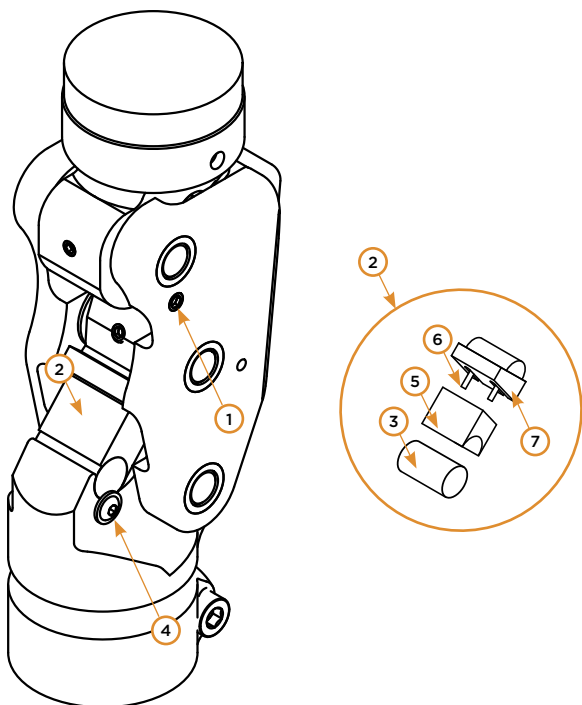
K1, High K3, or K4

WARRANTY

Fillauer prosthetic components are warranted for 12 months from date of shipment from the Fillauer warehouse or from an authorized Fillauer distributor. Items under warranty will be replaced or repaired (at Fillauer's discretion) at no charge. The warranty will be void if the item has been fabricated or installed outside Fillauer's recommendations, if the item has been exposed to a corrosive environment, or if the item has been used in extremely abusive activities that could result in injury.

INSTALLATION

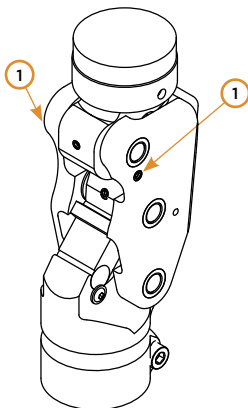
ADJUSTMENT



1. FRICTION CONTROL SET SCREW
2. TUNE-UP KIT
3. ELASTOMER or COPOLYMER
4. RETAINING SCREW
5. LOWER WEDGE
6. DOWEL PINS
7. WEDGE

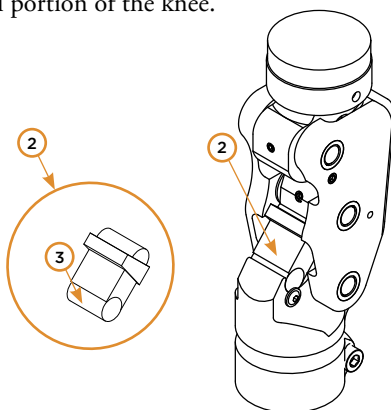
1.0 - Friction Control Adjustment

Adjustment of the friction resistance of the GeriMac Knee unit is performed by rotating the friction control set screws (1) located just distal to the knee joint axis. Clockwise rotation of the set screws will increase resistance, and counter-clockwise rotation of the set screws will decrease resistance. Once set, apply Loctite 242 to the screws in order to maintain their position.



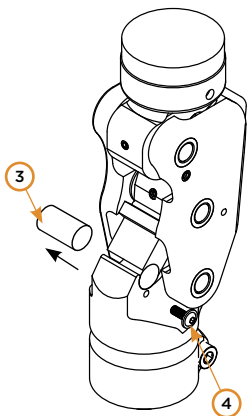
2.0 - Stance Flexion Adjustment

The GeriMac Knee incorporates an adjustable stance-flexion feature, by offering the elastomer/copolymer (3) in three different resistance levels, regular, soft, and a stance-flexion lockout option. The regular stance flexion elastomer is black, the soft stance flexion elastomer is grey, and the lockout copolymer is white, to help the practitioner differentiate between the resistance levels. The stance flexion elastomer/copolymer is found in the tune-up kit (2), which is located at the distal portion of the knee.



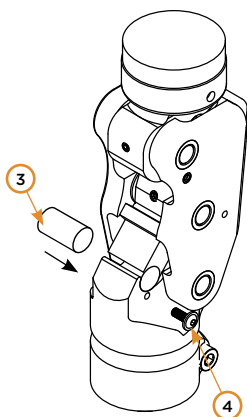
2.1 - Remove Elastomer/Copolymer

The stance flexion elastomer/copolymer can be interchanged by initially removing the retaining screw (4) located on either side of the elastomer/copolymer (3). Next, remove the elastomer/copolymer by sliding it either medially or laterally, away from the knee.



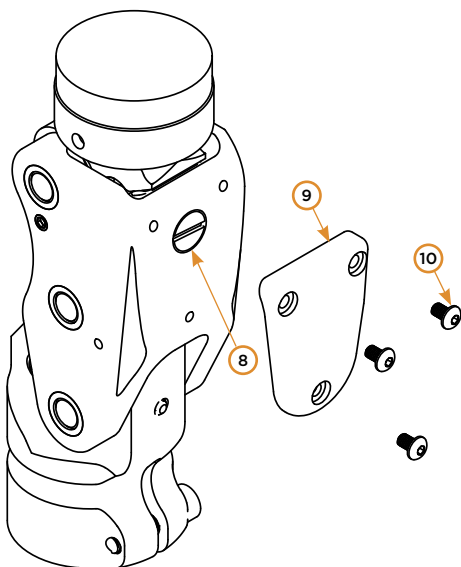
2.2 - Replace Elastomer/Copolymer

Slide the elastomer/copolymer (3) back into its position. Secure the elastomer/copolymer by threading the retaining screw (4) back into the knee.



3.0 - Lock Adjustment

The sensitivity of the lock is adjusted by the adjustment screw (8) on the anterior portion of the knee, behind the knee cover (9). To adjust the lock sensitivity, first remove the knee cover by taking out the three knee cover screws (10). Rotate the adjustment screw clockwise to increase the resistance to unlocking (less likely to unlock). Rotate the adjustment screw counter-clockwise to decrease the resistance (more likely to unlock).

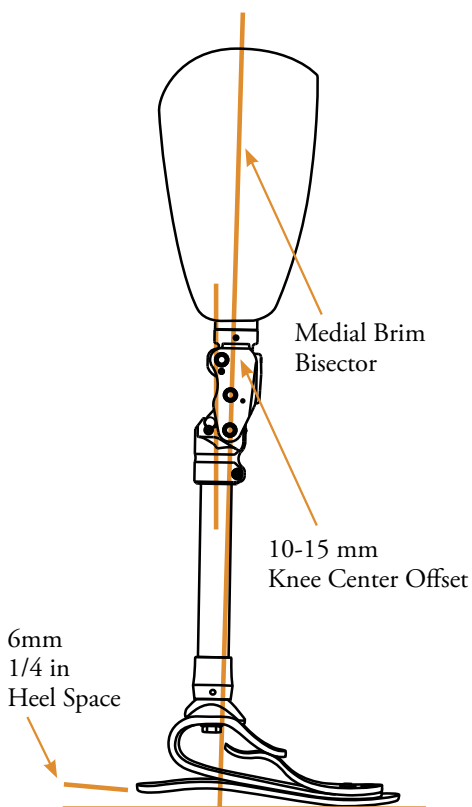


- 8. ADJUSTMENT SCREW
- 9. KNEE COVER
- 10. KNEE COVER SCREWS

ALIGNMENT

1.0 - Sagittal Plane Alignment

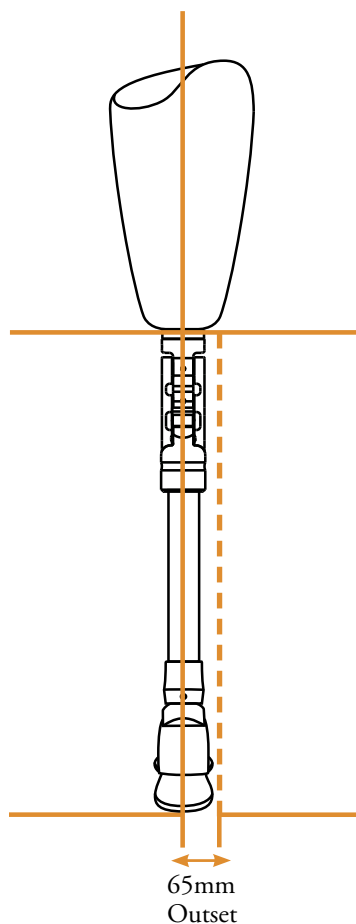
In the sagittal plane the knee joint center should fall $1/4''$ (6mm) posterior to a line drawn from the middle of the medial brim at ischial level to the ankle joint center.



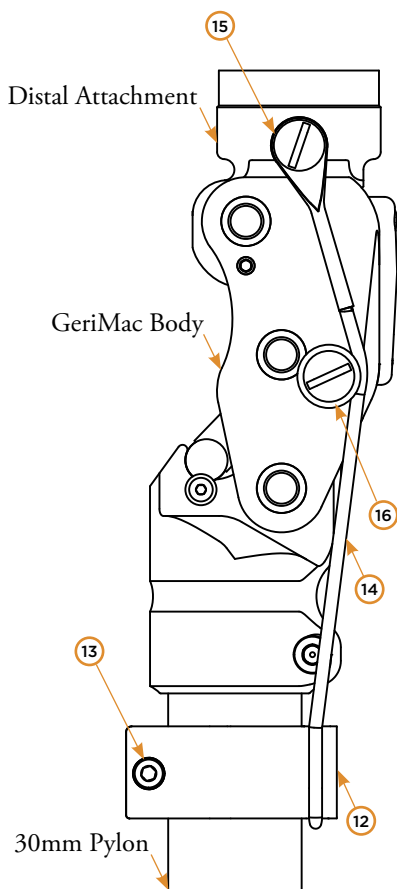
2.0 - Coronal Plane Alignment

For an ischial containment socket the center of the knee should be in line with a line drawn from the midpoint of the socket at ischial level to the ankle bolt up to 65mm outset.

For a quadrilateral socket, the center of the knee should be in line with a line drawn from the medial third of the socket at ischial level to the ankle bolt.



INSTALLATION - KNEE EXTENSION ASSIST



12. TERMINAL LUG

13. TERMINAL LUG SCREW

14. EXTENSION ASSIST CORD

15. SHOULDER SCREW

16. EXTENSION ASSIST PULLEY

TOOLS REQUIRED

- 3mm Hex Wrench
- Small Standard Screwdriver
- Loctite 242

1.0 - Secure Terminal Lug

Slide the Terminal Lug (12) over the 30mm Pylon. Secure the Terminal Lug with the Terminal Lug Screw (13).

1.1 - Align Extension Assist Cord

Align the Extension Assist Cord (14) with the threaded holes on the Distal Attachment. Use the Shoulder Screw (15) to attach the Extension Assist Cord to the Distal Attachment. Make sure to apply Loctite 242 to the threads before installing the shoulder screw.

1.2 - Attach Extension Assist Pulley

Attach the Extension Assist Pulley (16) to both sides of the GeriMac Body using a Shoulder Screw. Apply Loctite 242 to the threads before installing the Shoulder Screws. After installation, the pulleys should rotate freely.

1.3 - Stretch Extension Assist Cord

Stretch the Extension Assist cord (14) over the pulleys (16) and over the Terminal Lug (12).

2.0 - Extension Assist Adjustment

The extension assist force can be adjusted by loosening the Terminal Lug Screw (13) and moving the terminal lug up or down the pylon. Moving the terminal lug down the pylon will increase the extension assist force, and moving it up the pylon will decrease the force of the extension assist.

MAINTENANCE

The GeriMac requires very little maintenance in order to function properly. The friction adjustment screws should be checked periodically for tightness and wear. The knee itself does not require any lubrication. Both the terminal impact bumper and the stance flexion bumper may require periodic replacement depending on the patient's activity level. Check both bumpers for signs of excessive wear (cracking, debris, etc). If signs of excessive wear are present, replace the bumpers.

L-CODES

L5812* Addition, Endoskeletal Knee-Shin System, Single Axis, Friction Swing and Stance Phase Control (Safety Knee)

L5845* Addition, Endoskeletal Knee-Shin System, Stance Flexion Feature, Adjustable

L5850* Addition, Endoskeletal system, Above Knee or Hip Disarticulation, Knee Extension Assist

**The suggested L-code is provided as a reference only. It is the responsibility of the prosthetic service provider to confirm this information.*

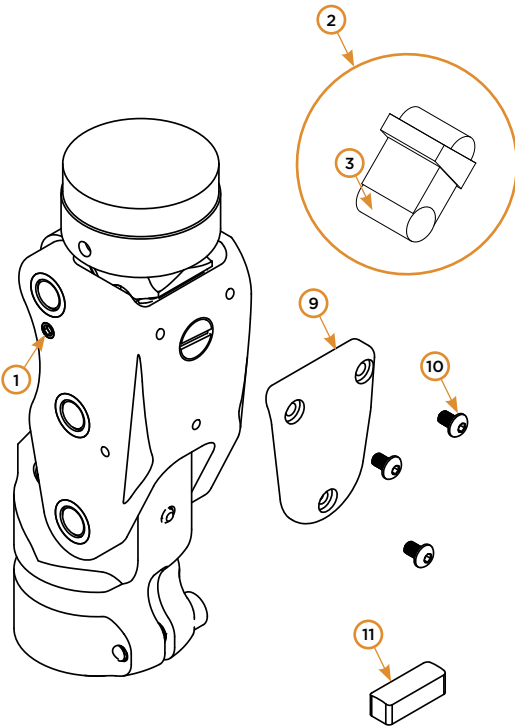
ACCESSORIES (sold separately)



124270

M36 Thread to Pyramid Adapter

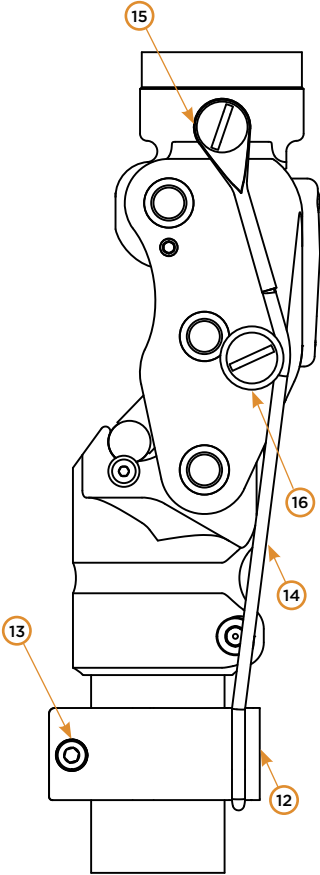
REPLACEMENT PARTS



FC100550	GERIMAC KNEE
1. 880068	Friction Control Set Screw
2. 122900	Tune Up Kit
3. 122903	Stance Flexion Elastomer - Soft
3. 122905	Stance Flexion Elastomer - Rg.
3. 122908	Stance Flexion Lockout Copolymer
9. 122506	Knee Cover
10. 880059	Knee Cover Screws
11. 122401	Terminal Impact Bumper

(continued on next page)

REPLACEMENT PARTS (continued)
Extension Assist



122800	.....	Extension Assist Kit (included)
12. 59947	.....	Terminal Lug
13. 60406	.....	Terminal Lug Screw
14. 59946	.....	Extension Assist Cord
15. 59930	.....	Shoulder Screw
16. 59944	.....	Extension Assist Pulley

FREQUENTLY ASKED QUESTIONS

What is the weight limit on the knee unit?

The GeriMac knee is rated to 175lbs (80kg).

What are the suggested l-codes for the knee?

L5812, L5845, and L5850.

What activity level is the knee suitable for?

The GeriMac knee is intended for use at the K2 or low K3 activity level as defined by the Centers for Medicare/Medicaid Services.

What are the physical characteristics of the knee?

The GeriMac knee has a build height of 3.94" (10cm) and weighs 13.6oz (385.6g).

Does the knee require lubrication?

No. The knee is designed to function without the use of additional lubrication.

What feet can be used with the knee?

The knee is designed to be used with as wide a variety of prosthetic feet as possible. Currently, there are no known limitations on feet that can be used with the knee.

Where can spare parts be obtained?

Spare parts can be obtained through the same avenue that the knee was purchased. Please contact Fillauer for a list of authorized suppliers.

What parts can be serviced by the Prosthetist?

There are some parts of the knee that will degrade through use, including the stance flexion bumper, friction adjustment screws, and lock spring. The knee cover may need occasional replacement depending on the activities of the patient.

FAQ (continued)

How is the knee aligned?

The knee is bench aligned similar to single axis knees. Dynamic alignment is performed as normal. Please refer to page 13 for detailed alignment characteristics.

Can the knee be used in the water?

Exposure to environments that corrode metals (pools, saltwater, etc) should be avoided as they could lead to premature breakdown of the knee and possible mechanical failure.

Can the knee be covered?

Yes, the knee can be covered using traditional soft foam protective covers.

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GERIMAC

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