

System Knee Joint



NEURO MATIC

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1. Information

This manual is addressed to orthotists and does not contain any notes about dangers which are obvious to orthotists. To achieve maximum safety, please instruct the patient and/or care team in the use and maintenance of the product.

2. Safety Instructions

2.1 Classification of the Safety Instructions

 DANGER	Important information about a possible dangerous situation which, if not avoided, leads to death or irreversible injuries.
 WARNING	Important information about a possible dangerous situation which, if not avoided, leads to reversible injuries that need medical treatment.
 CAUTION	Important information about a possible dangerous situation which, if not avoided, leads to light injuries that do not need medical treatment.
NOTICE	Important information about a possible situation which, if not avoided, leads to damage of the product.



All serious incidents connected to the product shall be reported to the manufacturer or the responsible authorities.

2.2 All Instructions for a Safe Handling of the NEURO MATIC System Knee Joint

DANGER

Potential Traffic Accident Due to Limited Driving Ability

Advise the patient to gather information about all safety and security issues before driving a motor vehicle with orthosis. The patient should not lock the system joint unintentionally and should generally be able to drive a motor vehicle safely.

WARNING

Risk of Falling Due to Improper Handling

Inform the patient about the correct use of the system joint and potential dangers especially with regards to:

- moisture and water as well as
- excessive mechanical stress (e.g. due to sports, increased activity or weight gain).

WARNING

Risk of Falling Due to Loosely Attached Cover Plate

Mount the cover plate to the system joint according to the assembly instructions in this manual. Secure the screws with the specified torque and the corresponding adhesive and make sure that no sliding washers are damaged in the process.

WARNING

Risk of Falling Due to Permanent Higher Load

If patient data has changed (e.g. due to weight gain, growth or increased activity), recalculate the load capacity of the system joint. For this purpose, use the Orthosis Configurator or contact Technical Support.

WARNING

Risk of Falling Due to Improper Shoe/Wrong Shoe Pitch

Advise the patient to wear a shoe to which the orthosis is adjusted in order to avoid joint dysfunction in Auto mode.

WARNING

Risk of Falling Due to Improper Maintenance

Follow the instructions in this manual and gather information about joint-specific particularities before maintenance of the system joint. To do so, attend one of our production technique workshops, refer to the online tutorials on our website or contact Technical Support.

WARNING

Risk of Falling Due to Walking Incorrectly with Orthosis

Make sure that the patient is able to handle their orthosis. Recommend them a physiotherapeutic gait re-education and explain them the system joint's particularities.

WARNING

Damage to the Anatomical Joint Due to Incorrect Position of the Joint's Mechanical Pivot Point

Determine the joint's mechanical pivot points correctly in order to avoid a permanent incorrect load on the anatomical joint. Please refer to the online tutorials on our website or contact Technical Support.

WARNING

Jeopardising the Therapy Goal Due to Lack of Free Movement

Check if the system joint moves freely in order to avoid restrictions of the joint function. Use suitable sliding washers according to the information in this manual.

NOTICE

Limitation of the Joint Function Due to Improper Processing

Errors in processing can impair the joint function. Pay particular attention to:

- correctly connecting the system side bar/system anchor with the system case in accordance with the production technique;
- grease the joint components only slightly and
- adhere to the maintenance intervals.

NOTICE

Malfunctions Due to Insufficient Range of Motion in the System Ankle Joint

Check the plantar flexion angle in order to avoid joint dysfunction. It should be **not** less than 5°. Replace the dorsal spring unit if necessary.

3. Application

The NEURO MATIC system knee joint is exclusively for use for orthotic fittings of the lower extremity. It must be handled by a professionally trained user. All FIOR & GENTZ system joints were developed for everyday life activities such as standing and walking. Extreme loads connected to activities like running, climbing and parachuting are excluded.

4. Joint Functions

The NEURO MATIC system knee joint is an automatic joint and provides three joint functions:

- basic function at delivery status in Auto mode
- alternative function in Lock mode
- alternative function in Free mode

The system knee joint is preassembled in a physiological joint angle of 5°. It can be brought into a knee flexion position of 0° or 10° by exchanging system components. To do so, exchange the 5° upper part for a 0° or 10° upper part.

4.1 Basic Function in Auto Mode

In Auto mode, the **NEURO MATIC** is a system knee joint that locks and unlocks automatically. When the patient stands wearing the orthosis, the **NEURO MATIC** system knee joint is free moving. It is then secured through the integrated posterior offset (fig. 1) and the patient's remaining function of the knee and hip extension muscles. When the patient walks wearing the orthosis, the **NEURO MATIC** system knee joint is locked at heel strike and the accompanying plantar flexion (fig. 2). This is achieved by a mechanical connection from the system ankle joint to the **NEURO MATIC** system knee joint. A slight extension moment during heel lift unlocks the system knee joint. The unlocking moment can be adjusted by the dorsiflexion of the system ankle joint.



fig. 1

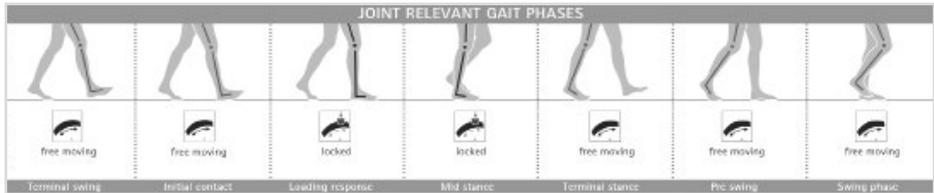


fig. 2

Locking

The foot's plantar flexion is initiated when the heel is set on the ground. Thus, the system stirrup of the system ankle joint is pressed upwards which pushes the wire (mechanical connection from system ankle joint to **NEURO MATIC** system knee joint) upwards, too. This results in the locking pawl meshing into the tothing of the toothed ring (fig. 3). The system joint is now locked.

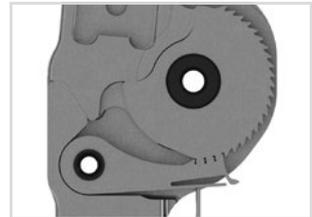


fig. 3

Unlocking

The foot's dorsiflexion is initiated when one leg is set back. Thus, the spring force presses the system stirrup downwards and pulls the wire downwards, too. Immediately after applying a slight extension moment, the locking pawl of the **NEURO MATIC** system knee joint falls downwards out of the tothing of the toothed ring due to gravity and the system joint is free moving in swing phase (fig. 4).

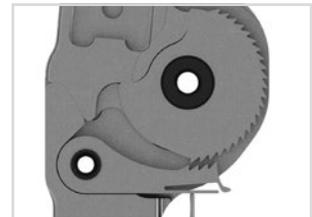


fig. 4

4.2 Alternative Function in Lock Mode

In Lock mode, the **NEURO MATIC** system knee joint is a locked joint to provide motion control. It is permanently mechanically locked in a determined extension.

4.3 Alternative Function in Free Mode

In Free mode, the NEURO MATIC system knee joint is a free moving joint to provide motion control. It is free moving up to a determined extension position. When the patient is standing with the orthosis, the stance phase control is not achieved mechanically but by means of the integrated posterior offset (fig. 5) and the patient's remaining function of the knee and hip extension muscles. It is recommended to select the Free mode for activities such as driving a car or cycling.

5. Scope of Delivery

Description	Quantity
NEURO MATIC system knee joint (without figure)	1
AGOMET® F330, 5g (fig. 6)	1
assembly/lamination dummy (fig. 7)	1

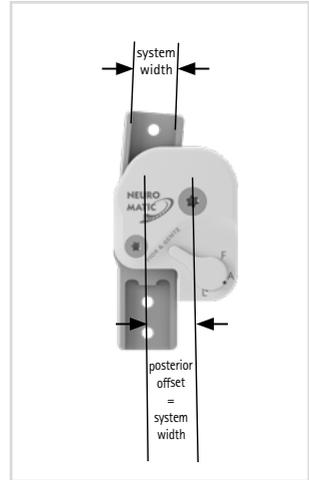


fig. 5

For producing

a KAFO with a NEURO



fig. 6



fig. 7

MATIC system knee joint, you need the corresponding component set for the orthosis type. A set includes in the scope of delivery the following system components (fig. 8):

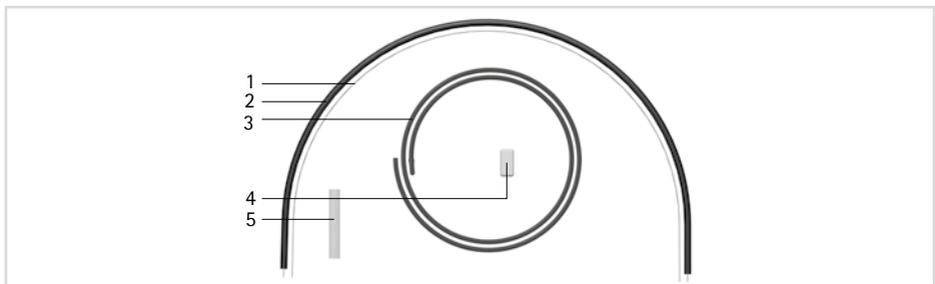


fig. 8

Item	Description	Unit	Quantity for Construction	
			Unilateral	Bilateral
1	wire, steel, 500mm long	piece	2	4
2	cable cover with inner tube, 500mm long	piece	1	2
3	lamination dummy for solenoid connection cable	piece	1	2
4	lamination dummy for cable cover guidance	piece	1	2
5	cable cover conduit made of plastic	piece	1	2
w/o fig.	cloth bag for orthoses with logo	piece	1	1

6. Load Capacity

The load capacity results from the relevant patient data and can be determined by using the Orthosis Configurator. Use the system components determined by the Orthosis Configurator when producing an orthosis and mind the recommended production technique. You will find information on the production techniques in the section "Orthosis Production" under "Online Tutorials" on our website www.fior-gentz.com.

7. Tools for Assembling the System Joint

Tools	System Width	
	16mm	20mm
T8 hexalobular screwdriver/bit	x	x
T10 hexalobular screwdriver/bit	x	-
T15 hexalobular screwdriver/bit	x	x
T20 hexalobular screwdriver/bit	-	x
torque screwdriver 1-6Nm	x	x
combination pliers	-	x
side cutter	x	x

8. Assembly Instructions

The system joint is delivered fully assembled. All functions are checked beforehand. You have to disassemble the system joint for mounting it in the orthosis and for maintenance. To ensure an optimal functioning, follow the assembly instructions below. Secure all screws with the torque specified in paragraph 8.5.

i When mounting the system joint, mind the correct basic alignment as it is essential for the later function of the orthosis (see also paragraph 11.1).

8.1 Assembling the Locking Parts



Make sure not to damage the sliding washer during the assembly. Jammed sliding washer particles can cause lateral play in the system joint.

- 1 Grease the axle bore of the locking pawl and of the toothed ring as well as the friction surfaces of the bearing nuts **slightly** with orthosis joint grease. Make sure that no grease enters the toothings of the locking pawl and the toothed ring.
- 2 Put the bearing nut for the locking pawl into the opening of the joint's lower part (fig. 9).
- 3 Mount the locking pawl (fig. 10).
- 4 Put the bearing nut for the joint axis into the opening of the joint's lower part (fig. 11).
- 5 Grease the first sliding washer **slightly** on both sides with orthosis joint grease and place it onto the joint's lower part (fig. 12).
- 6 Put the toothed ring on the front side of the joint's upper part so that it is flush with the joint's upper part. The wavy cut-out has to point in direction of the joint's upper part (fig. 13-14).
- 7 Mount the joint's upper part (fig. 15). Make sure that the joint's upper part is placed without play.
- 8 Apply spray adhesive on one side of the second sliding washer and adhere it to the cover plate (fig. 16).
- 9 Grease the other side **slightly** with orthosis joint grease.



fig. 9



fig. 10



fig. 11



fig. 12



fig. 13



fig. 14



fig. 15



fig. 16

8.2 Mounting the Cover Plate

The lever of the cover plate is already preassembled. For the following steps, the lever has to be set on A.

- 1 Clean the threads of the cover plate with LOCTITE® 7063 Super Clean, if necessary.
- 2 Place the cover plate onto the system joint.
- 3 Screw in the first countersunk flat head screw (axle screw, S1; fig. 17).
- 4 Screw in the second countersunk flat head screw (S2; fig. 18).



fig. 17



fig. 18

8.3 Checking the System Joint's Free Movement

Check if the system joint moves freely. If the system joint runs with lateral play, mount the next thicker sliding washer. If it does not move freely (it is jammed), mount the next thinner sliding washer.

8.4 Mounting the Extension Stop Damper

- 1 Turn the system joint upside down and place the extension stop damper into the bore (fig. 19).
- 2 Bring the system joint in extension.



fig. 19

8.5 Securing the Screws

The screws are secured after the orthosis has been produced and tried on and before it is handed over to the patient.

- 1 Secure the screws for the cover plate with the torque corresponding to the system width and LOCTITE® 243 medium strength.
- 2 Let the adhesive harden (final strength after approx. 24 hours).

Position of the Screw	System Width	
	16mm	20mm
S1 (screw 1, axle screw)	4Nm	4Nm
S2 (screw 2)	3Nm	4Nm



The screws of the cover plate are not secured with the necessary torque at delivery.
You can also find information on the torque in the openings of the cover plate.

9. Selecting a Mode

At the system joint, there is a lever and the three marked letters F, A and L. F stands for Free mode, A stands for Auto mode and L stands for Lock mode (fig. 20). You can select the available modes Auto, Free and Lock with the lever.

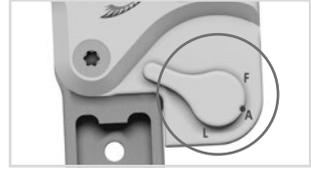


fig. 20

Switching the Mode	Explanation	Figure
from Auto mode into Lock mode	The patient has to take load off the extended orthosis, i.e. not exert any force on the orthosis.	21 and 22
from Lock mode into Auto mode	The patient has to take load off the extended orthosis, i.e. not exert any force on the orthosis.	21 and 22
from Auto mode into Free mode	The patient has to apply an extension moment to unlock the orthosis. They can sit and manually press the knee backwards.	23
from Free mode into Auto mode	There is nothing special to consider.	w/o fig.
from Lock mode into Free mode	First, the patient has to take the load off the orthosis in order to select Auto mode. Then, they have to apply an extension moment to unlock the orthosis and select Free mode.	w/o fig.



fig. 21



fig. 22

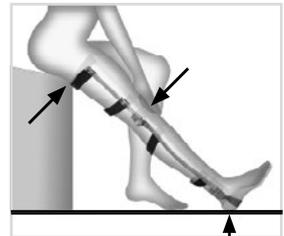


fig. 23

10. Connecting the System Ankle Joint

The NEURO MATIC system knee joint only works properly when it is connected to a system ankle joint. The mechanical connection to the system ankle joint controls the automatically locking system knee joint during the different gait phases (also see paragraph 11.1).

10.1 NEURO VARIO-SPRING System Ankle Joint

The NEURO MATIC system knee joint can be connected to the NEURO VARIO-SPRING system ankle joint by using the corresponding adaptor screw (fig. 24) for the system ankle joint.



fig. 24

10.2 NEURO VARIO-SWING, NEURO SWING and NEURO SWING 2 System Ankle Joint

The NEURO MATIC system knee joint can be connected to the NEURO VARIO-SWING, NEURO SWING or NEURO SWING 2 system ankle joint by using the corresponding adap-



fig. 25

.....

tor unit (fig. 25) for the system ankle joint.

11. Adjusting the Orthosis

The orthosis' alignment has a major effect on the orthosis' functionality and must hence be adjusted appropriately.

11.1 Checking the Orthosis' Basic Alignment

On the Workbench

Regardless of the plantar flexion, automatic system knee joints require a systematic adjustment of the dorsiflexion stop for an optimal function of the orthosis. The dorsiflexion stop determines the moment the system knee joint unlocks during mid stance. Furthermore, it affects the extension moment which is applied to the orthosis and the system knee joint, respectively. This is necessary to unlock the system knee joint.

Fix the foot piece of the orthosis firmly in the patient's shoe and put the orthosis on the workbench. The dorsiflexion stop of the system ankle joint must be adjusted in such a way that the line of gravity passes through the middle of the femoral shell and runs vertically downwards in front of the system ankle joint and between the ankle's pivot point and the rolling-off line.

Statically on the Patient

For checking the correct static alignment of the orthosis, the patient must wear the orthosis and stand upright with parallel feet. When viewed from the side, the line of gravity must run from the body's centre of gravity vertically downwards in front of the system ankle joint and between the ankle's pivot point and the rolling-off line. The course of the line of gravity at knee height results from the individual normal posture. Wearing the orthosis leads to deformation of soft tissue. This deformation causes the line of gravity to shift forward. Please consider this by readjusting the dorsiflexion stop, if necessary.

If the dorsiflexion stop is adjusted correctly, a lever between forefoot and lower leg is formed (activation of the forefoot lever) which brings the patient into a stable balance (they are able to balance themselves) and applies the necessary knee extension moment.

Dynamically on the Patient

For checking the correct dynamic alignment of the orthosis, the patient must wear the orthosis and walk a few steps with it. The dorsiflexion stop must be adjusted in such a way that a heel lift can clearly be seen in terminal stance. The consequence is a lever between forefoot and lower leg which brings the patient into a stable balance and applies the necessary knee extension moment. If the heel does not lift, you must reduce the system ankle joint's range of motion in dorsiflexion.

12. Converting Options of the NEURO MATIC System Knee Joint

The NEURO MATIC system knee joint can be converted into a NEURO TRONIC system knee joint by exchanging a few system components. To do so, please contact our Technical Support.

13. Advice on Optimal Orthosis Functionality

Problem	Cause	Solution
The system joint does not lock.	As the patient's steps are not long enough, the patient sets the whole foot's sole on the floor first and not the heel. Thus, the plantar flexion is not initiated and the system joint does not lock.	Gait re-education for the patient!
	As the patient bends the upper body forward far too much, which causes a compensatory flexed position of the knee, the patient sets the toes or the whole foot's sole on the floor first and not the heel. Thus, the plantar flexion is not initiated and the system joint does not lock. These are typical gait characteristics in patients who depend on orthopaedic devices such as crutches, walkers or parallel bars.	Gait re-education! Teach the patient to walk as upright as possible.
	As the used leg length compensation is insufficient, the patient sets the toes or the whole foot's sole on the floor first and not the heel. Thus, the plantar flexion is not initiated and the system joint does not lock.	Correct the used leg length compensation.
	The wire is too short.	Mount a longer wire.
	The patient has pulled out the cable cover.	Reinsert the cable cover into the cable cover conduit and check the basic alignment.
The system joint locks unintentionally in slightly flexed position.	The extension stop damper is too long. Ventrally, an instant before heel strike, you can see an obvious opening between upper and lower part of the system knee joint.	Cut the extension stop damper.
	The patient's leg is extended by a high momentum. If the leg comes into full extension before the heel touches the floor, the lower leg bounces off the extension stop into a slightly flexed position. Ventrally, an instant before heel strike, you can see an obvious opening between upper and lower part of the system knee joint.	Gait re-education! Teach the patient a harmonious and natural swing phase. In terminal swing, the heel should be about to touch the ground.

Problem	Cause	Solution
The system joint does not unlock.	The leg was put into cast too extended. Therefore, the patient cannot apply the necessary extension moment to the orthosis to unlock the system joint. Ventrally, at heel lift, you can see an obvious opening between upper and lower part of the system knee joint.	To increase the flexion, mount the 10° joint's upper part to the NEURO MATIC system knee joint as well as the 10° extension stop to the supporting knee joint and check the basic alignment.
	The extension stop damper is too long. Thus, the extension stop damper is compressed to such an extent that the necessary extension moment to unlock the system joint is more than the patient can apply.	Cut the extension stop damper.
	As the patient's steps are not long enough, the dorsiflexion stop is not reached at heel lift. Thus, the knee extension moment to unlock the system joint cannot be applied.	Adjust the dorsiflexion stop in such a way that the forefoot lever causes a knee extension moment.
	The dorsiflexion stop is reached too late (see paragraph 11.1).	Adjust the dorsiflexion stop until the produced orthosis meets the correct basic alignment.
	The forefoot lever of the foot piece does not achieve its effect on the knee extension.	Check the orthosis' basic alignment. If the system ankle joint has a dynamic dorsiflexion stop, you might need to insert a stronger spring unit.
	The proximal, dorsal thigh band transfers flexion load when a leg is set back.	Remove material from the upper thigh band area.
The system joint does a ratcheting noise in swing phase.	The spring force for lifting the foot is too weak.	Increase the spring force.
	The patient is wearing another shoe.	Check the shoe's heel height as well as the basic alignment.
	The wire is too long (adjusted too secure).	Shorten the wire.
The system joint cannot be switched into Lock mode.	Load is applied to the extended orthosis.	Let the patient take the load off the extended orthosis.
The system joint cannot be switched into Free mode.	The system joint was still locked in Auto mode at the time of switching mode.	Let the patient apply an extension moment to unlock the orthosis.

14. Maintenance

Check the system joint for wear and functionality every **3 months**. Also check the functionality after every maintenance carried out.

Joint Component	Point in Time	Problem	Measure
toothed ring and locking pawl	every 3 months	wear of the teeth	replacing
extension stop damper	every 3 months	wear	replacing
sliding bushing	every 3 months	wear	replacing
sliding washers	every 3 months	wear	replacing, see paragraph 14.1
bearing nut	every 3 months	wear	replacing

Especially the **toothed ring** and the **locking pawl** are subject to greater stress than other system components, which is why you should replace them on a regular basis, regardless of visible signs of wear:

Activity Level	Point in Time	Measure
1 and 2	every 12 months	replacing
3 and 4	every 9 months	replacing



For detailed information on the activity level, refer to the orthotic treatment sheet, our Orthosis Configurator at www.orthosis-configurator.com or our online tutorials at www.fior-gentz.com.

Secure the screws for the cover plate with the torque corresponding to the system width and LOCTITE® 243 medium strength at every maintenance (see paragraph 8.5). Remove all adhesive residues first.

14.1 Replacing the Sliding Washers

Sliding washers are available in different thicknesses (e.g. GS1407-040 is 0.40mm thick). Each thickness has a different marking (fig. 26). You will find the article numbers of the premounted sliding washers on the back page of this manual.

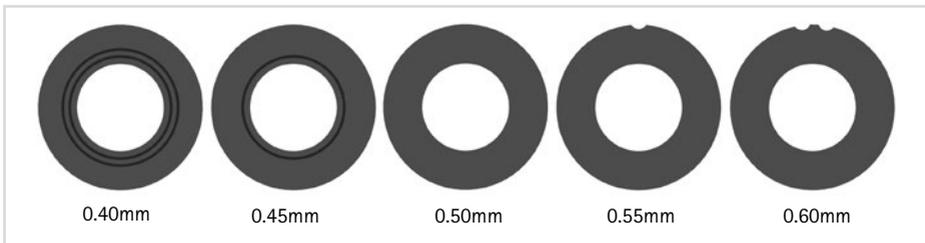


fig. 26

14.2 Exchanging Components of the Cover Plate

If one component of the cover plate wears out, it has to be exchanged for a new one. To assemble the cover plate again, proceed as follows (fig. 27):

- 1 Place the sliding washer (1) onto the lever (2).
- 2 Slide the lever into the hole in the cover plate (3).
- 3 Slide the ball (4) and the pressure spring (5) into the lever.
- 4 Press the switching pawl (6) onto the lever from behind.
- 5 Secure the sub-assembly with the retaining washer for shafts (7) on the cover plate.

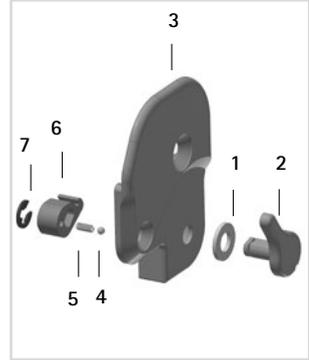


fig. 27

14.3 Cleaning

The system joint must be cleaned when necessary and during regular maintenance. For this purpose, disassemble the system joint and clean the soiled system components with a dry cloth.

15. Spare Parts

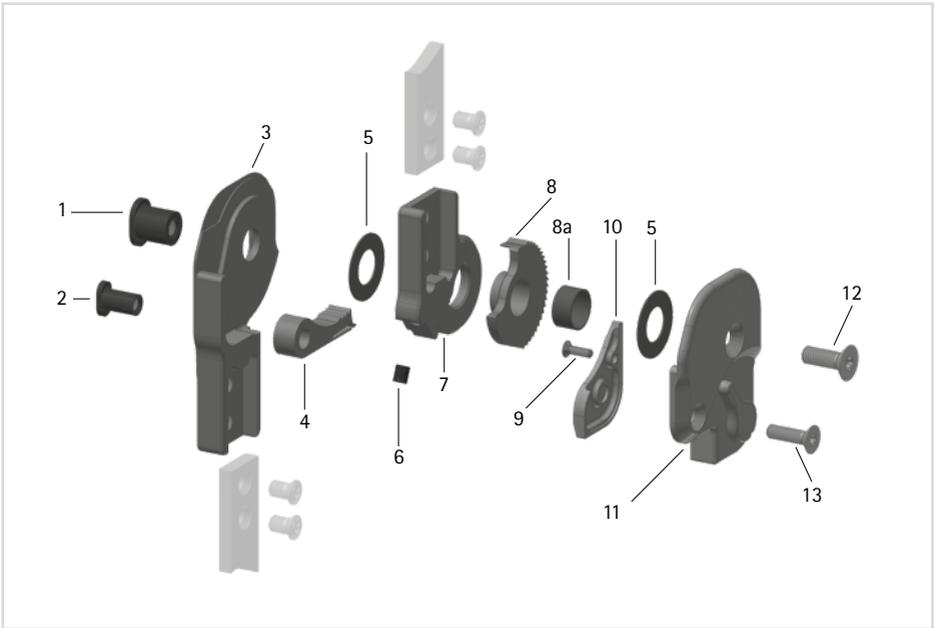


fig. 28

The cover plate is delivered premounted. If individual components of the cover plate (fig. 29) have to be exchanged, you can order them as well.

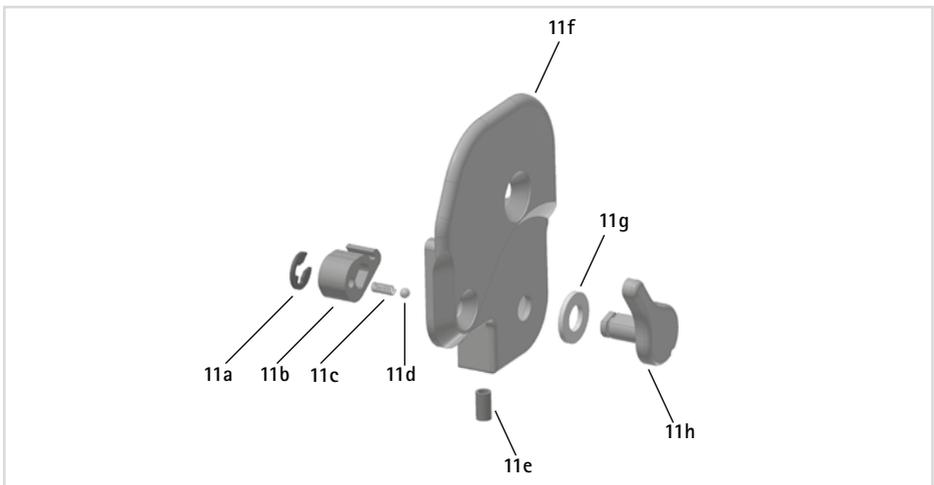


fig. 29

Item	Article Number for System Width		Description
	16mm	20mm	
1	SB9669-L0990	SB1069-L1000	bearing nut (joint axis)
2	SB6049-L0990	SB8559-L1000	bearing nut (locking pawl)
3	SK0313-L/TI	SK0315-L/TI	lower part, left lateral or right medial, straight, titanium
3	SK0313-R/TI	SK0315-R/TI	lower part, left medial or right lateral, straight, titanium
3	SK0333-L/TI	SK0335-L/TI	lower part, left lateral or right medial, bent inwards, titanium
3	SK0333-R/TI	SK0335-R/TI	lower part, left medial or right lateral, bent inwards, titanium
3	SK0333-8L/TI	SK0335-8L/TI	lower part, left lateral or right medial, bent outwards, titanium
3	SK0333-8R/TI	SK0335-8R/TI	lower part, left medial or right lateral, bent outwards, titanium
4	SK0373	SK0375-2	locking pawl
5	GS1910-*	GS2411-*	sliding washer*
6	PN1000-L06	PN1000-L06	extension stop damper
7	SK0303-2L/TI	SK0305-2L/TI	5° upper part, left lateral or right medial, straight, titanium
7	SK0303-2R/TI	SK0305-2R/TI	5° upper part, left medial or right lateral, straight, titanium
8	SK0363-2L	SK0365-2L	toothed ring, left lateral or right medial, titanium
8	SK0363-2R	SK0365-2R	toothed ring, left medial or right lateral, titanium
8a	BP1110-L059	BP1211-L059	sliding bushing
9	SC1403-L08/1	SC1403-L08/1	countersunk flat head screw, hexalobular socket
10	SK0353-4L/AL	SK0355-4L/AL	small cover plate, left lateral or right medial, aluminium
10	SK0353-4R/AL	SK0355-4R/AL	small cover plate, left medial or right lateral, aluminium
11	SK3393-L	SK3395-L	cover plate with lever, left lateral or right medial
11	SK3393-R	SK3395-R	cover plate with lever, left medial or right lateral
11a	VE6799-32/0	VE6799-32/0	retaining washer for shafts
11b	SK0375-20/L	SK0375-20/L	switching pawl, left lateral or right medial
11b	SK0375-20/R	SK0375-20/R	switching pawl, left medial or right lateral
11c	FE1207-01	FE1207-01	pressure spring
11d	KU1002-ST	KU1002-ST	ball
11e	SK0375-22	SK0375-22	sliding bushing
11f	SK0353-3L/AL	SK0355-3L/AL	big cover plate, left lateral or right medial, aluminium
11f	SK0353-3R/AL	SK0355-3R/AL	big cover plate, left medial or right lateral, aluminium
11g	GS1005-100	GS1005-100	sliding washer for lever
11h	SK0375-21	SK0375-21	lever for switching pawl
12	SC1405-L14	SC1406-L14	countersunk flat head screw, hexalobular socket (axle screw)
13	SC1404-L14	SC1405-L14	countersunk flat head screw, hexalobular socket

*** Sliding Washers**

Article Number for System Width	
16mm	20mm
Ø = 19mm	Ø = 24mm
GS1910-040	GS2411-040
GS1910-045	GS2411-045
GS1910-050	GS2411-050
GS1910-055	GS2411-055
GS1910-060	GS2411-060

16. Disposal

Dispose of the system joint and its individual parts properly. The product must not be disposed of with the residual waste (fig. 31). Please comply with the applicable national laws and local regulations for the proper recycling of recyclable materials.



fig. 30



For proper disposal, it is necessary to demount the system joint from the orthosis.

17. Signs and Symbols

Symbols on the Packaging



medical device

18. CE Conformity

We declare that our medical devices as well as our accessories for medical devices are in conformity with the requirements of Regulation (EU) 2017/745. Therefore, the FIOR & GENTZ products bear the CE marking.

19. Legal Information

With the purchase of this product, our General Terms and Conditions of Business Transactions, Sales, Delivery and Payment will apply. The warranty expires, for example, if the product is mounted several times. Please note that the product is not supposed to be combined with other components or materials than with those recommended by the FIOR & GENTZ Orthosis Configurator. The combination of the product with products from other manufacturers is not permitted.

The information in these instructions for use is valid at the date of printing. The contained product information serve as guidelines. Subject to technical modifications.

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Beinseite

Leg Side/Côté jambe/Lato gamba/Lado de pierna/
Beenkant/Benside/左右の脚

- links/left/gauche/sinistra/izquierdo/links/venstre/左脚
- rechts/right/droite/destra/derecho/rechts/høyre/右脚

Montierte Gleitscheibe

Mounted Sliding Washer
Rondelle de friction montée
Dischetto di slittamento montato
Arandela antifricción montada
Gemonteerde glijschijf
Montert glideskive
取り付け済みのスライドワッシャー

1. GS _____ - _____

2. GS _____ - _____

