

**NEURO
CLASSIC-SWING**

Systemknöchelgelenk

System Ankle Joint



DE

Druckdatum: 2018-06
Der Inhalt dieser Produktbeilage wird regelmäßig aktualisiert und ist beim Einsatz des Produktes unbedingt zu beachten.
Sie finden diese Produktbeilage auch im Download-Bereich unserer Website unter www.fior-gentz.de/downloads.

Seite 2

GB

Date printed: 2018-06
This manual is regularly updated and should be strictly followed.
You can also find this manual in the download section on our website at www.fior-gentz.com/downloads.

Page 17

Content	Page
1. Declaration of Conformity	18
2. Warranty	18
3. Safety Information	18
4. Safety Instructions	18
4.1 Classification of the Safety Instructions	18
4.2 All Instructions for a Safe Handling of the NEURO CLASSIC-SWING System Ankle Joint	19
5. Application	21
6. Joint Function	21
7. Scope of Delivery	21
8. Load Capacity	22
9. Tools for Assembling the System Joint	22
10. Assembly/Lamination Dummies	22
11. Assembly Instructions	23
11.1 Mounting the Cover Plate	23
11.2 Mounting the System Stirrup	24
11.3 Checking the System Joint's Free Movement	24
11.4 Mounting the Spring Unit	24
11.5 Basic Alignment	24
11.6 Securing the Screws	25
12. Adjustment Options on the Orthosis	25
12.1 Adjustable Alignment	25
12.2 Adjustable Range of Motion in Plantar Flexion	26
12.3 Adjustable Range of Motion in Dorsiflexion	26
12.4 Variable Spring Force	26
12.5 Reading Joint Angles	26
13. Conversion of a NEURO CLASSIC-SWING into a NEURO SWING System Ankle Joint	27
14. Advice on Production Techniques	27
14.1 Production Techniques Online	27
14.2 Parallel Alignment of System Joints	27
14.3 Mounting to the System Side Bar/System Anchor	27
15. Maintenance	27
15.1 Repairing the Bearing Nut Bore	28
15.2 Replacing the Sliding Washers	29
15.3 Cleaning	29
16. Disposal	29
17. Spare Parts	30
18. Accessory Parts	31
19. Information for the Treatment Documentation	35

1. Declaration of Conformity

We declare that our medical devices as well as our accessories for medical devices are in conformity with the requirements of the Medical Devices Directive 93/42/EEC. Therefore, the FIOR & GENTZ products bear the CE marking.

2. Warranty

The warranty only applies if the product is used under the described conditions and for the intended purpose. The warranty expires if the product is used differently, if it is combined with other components or materials or if it is mounted according to a different production technique than the one recommended by the FIOR & GENTZ Orthosis Configurator. A combination with products from other manufacturers requires a written consent by the seller. The warranty and guarantee expire if the product is mounted several times. For further information, we refer to our General Terms and Conditions of Business Transactions, Sales, Delivery and Payment.

3. Safety Information

This manual is addressed to orthotists. That is why the content basically confines to features of the product. It does not contain any notes about dangers which are obvious to orthotists.

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.

To achieve maximum safety, please show the patient and/or the care team how to use and maintain the product correctly.

For information reasons and for the safety of your patient, please note all information provided in this manual including notes, tables and illustrations. In particular, note the safety instructions indicated by DANGER, WARNING, CAUTION and NOTICE that are listed and explained in the following paragraph. Ignoring this information may lead to patient injuries and property damage.



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

4. Safety Instructions

4.1 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.

4.2 All Instructions for a Safe Handling of the NEURO CLASSIC-SWING System Ankle 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 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 (for example, 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

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

WARNING

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

Determine the 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.

WARNING

Risk of Falling Due to Excessive Readjustment of the Spring Unit

Adjust the spring unit according to the information in this manual. Do not readjust more than 10°. Use the laser markings on the system stirrup and the joint's upper part to check the readjustment.

WARNING

Jeopardising the Therapy Goal Due to Incorrectly Filed System Stirrup

Do not file the system stirrup too far. This applies especially to the dorsiflexion stop, otherwise the forefoot lever is not activated. As a result, the patient is only stabilised insufficiently by the orthosis and the gait worsens. In order to avoid this, always file the system stirrup:

- gradually into the required stop angles and
- only so far that no more than 10° fine adjustment is possible.

WARNING

Jeopardising the Therapy Goal Due to Incorrectly Adjusted Spring Units

Screw in the spring unit up to the system stirrup and do not preload the spring unit. If the stops are reached too early or too late, either the range of motion is restricted or the patient is not sufficiently stabilised by the orthosis, which impairs the gait.

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;
- greasing the joint components only slightly and
- adhering to the maintenance intervals.

5. Application

The **NEURO CLASSIC-SWING** system ankle joint is exclusively for use for orthotic fittings of the lower extremity. It must be handled by a professionally trained user. You will find more information about this product under paragraph 6 Joint Function.

Every mechanical joint influences the orthosis' function and thus also the function of the leg. All **FIOR & GENTZ** system joints were developed for everyday life activities such as standing, walking and running but not for extreme loads due to sports such as climbing and parachuting.

Depending on the type of orthotic fitting and the patient's individual physical abilities, driving a motor vehicle safely should be guaranteed. This is subject to national laws and checked by authorised medical bodies. It is recommended to modify the motor vehicle to the patient's special needs (e.g. automatic transmission) so that the driving ability is given even without a functioning orthosis.

6. Joint Function

The basic function of the **NEURO CLASSIC-SWING** system ankle joint is to provide motion control with enhanced dorsiflexion assist. The range of motion in dorsiflexion can be adjusted by filing the system stirrup. The dorsiflexion-assist effect can be changed by replacing the spring unit. Spring units of different strengths that are mounted to the system ankle joint give the maximum range of motion in plantar flexion. This range of motion can be reduced by a motion limiting screw. The spring unit enables a controlled and dynamic foot drop in loading response.

7. Scope of Delivery

The scope of delivery includes the following articles:

Description	Quantity
NEURO CLASSIC-SWING system ankle joint (fig. 1)	1
cover plate pressing aid (fig. 2)	1
AGOMET F330, 5g (fig. 3)	1
orthosis joint grease, 3g (fig. 4)	1
assembly/lamination dummy (fig. 5)	1

Appropriate spring units and system stirrups have to be ordered separately. In our product catalogue **System Joints and Articulated System Side Bars** you can find a handy case with a set of our spring units. You can also order the spring unit case empty and equip it according to your own needs.



fig. 1



fig. 2



fig. 3



fig. 4

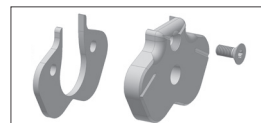


fig. 5

8. Load Capacity

You can find all relevant patient data for your selected system joint in the configuration you performed with the Orthosis Configurator and/or on your completed orthotic treatment sheet.

9. Tools for Assembling the System Joint

Tools for System Joint Screws	System Width				
	10mm	12mm	14mm	16mm	20mm
T10 hexalobular screwdriver as well as T10 hexalobular bit	x	-	-	-	-
T15 hexalobular screwdriver as well as T15 hexalobular bit	-	x	-	-	-
T20 hexalobular screwdriver as well as T20 hexalobular bit	-	-	x	x	x
torque screwdriver 1-6Nm	x	x	x	x	x
screwdriver for slotted screws with the blade size 3.5 x 0.6mm	x	x	x	x	x
screwdriver for slotted screws with the blade size 6.5 x 1.2mm	x	-	-	-	-
screwdriver for slotted screws with the blade size 8.0 x 1.2mm	-	x	x	x	x
pliers	x	x	x	x	x

Tools for Pressing Screw	System Width				
	10mm	12mm	14mm	16mm	20mm
T10 hexalobular screwdriver as well as T10 hexalobular bit	x	-	-	-	-
T20 hexalobular screwdriver as well as T20 hexalobular bit	-	x	-	-	-
T25 hexalobular screwdriver as well as T25 hexalobular bit	-	-	x	x	x

10. Assembly/Lamination Dummies

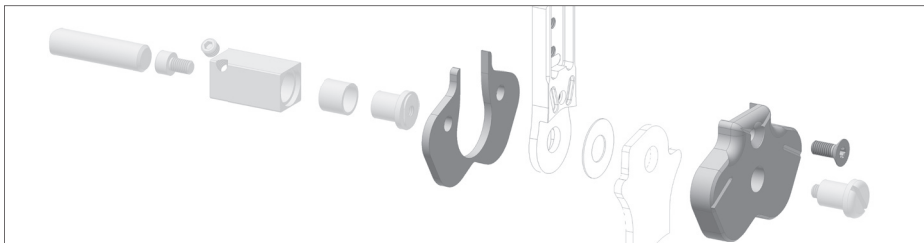


fig. 6

Assembly/lamination dummies are included in the scope of delivery of the system joint. You can find the article numbers as well as the corresponding tools for the parallel alignment in our product catalogue **System Joints and Articulated System Side Bars**.

11. Assembly Instructions

The system joint is delivered fully assembled (fig. 7). All functions are checked beforehand. You have to disassemble the system joint for mounting it in the orthosis and for maintenance. When disassembling the system joint, make sure not to interchange the different parts with each other or with parts of other system joints. To ensure an optimal functioning, please follow the assembly below.

11.1 Mounting the Cover Plate

Start the assembly of the **NEURO CLASSIC-SWING** system ankle joint by mounting the cover plate. Proceed as follows:



fig. 7

1. Apply spray adhesive on one side of the first sliding washer and adhere it to the cover plate (fig. 8). Grease the other side of the sliding washer **slightly** with the delivered orthosis joint grease.



Place the sliding washer in a way that prevents it from being damaged when mounting the cover plate. Jammed sliding washer particles cause lateral play in the system joint and a damaged sliding washer could lead to a fall. If you have nevertheless placed the sliding washer incorrectly (fig. 9–10), remove the particles and place a new sliding washer.



fig. 8



fig. 9

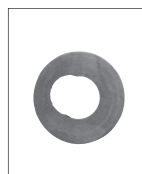


fig. 10

2. Make sure that the metal surface around the two grooves of the joint's upper part (fig. 11) is free of resin residues and other contaminants.
3. Put some **LOCTITE 638** in the grooves of the joint's upper part (fig. 11).
4. Adhere the cover plate to the joint's upper part.
5. Press the cover plate on the joint's upper part by using the pressing screw and the washer and screwing together cover plate and joint's upper part (fig. 12).
6. Tighten the pressing screw according to the torque for S1 given in the table (see paragraph 11.6).
7. Remove pressing screw and washer.
8. Turn in the first countersunk flat head screw (S1; fig. 13) according to the torque given in the table (see paragraph 11.6).
9. Make sure that there is no opening left between the cover plate and the joint's upper part (fig. 14).



fig. 11

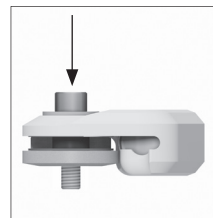


fig. 12

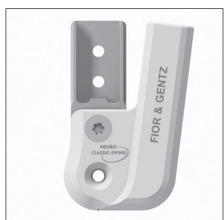


fig. 13

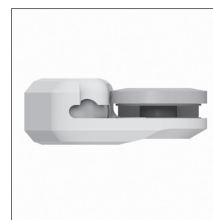


fig. 14

11.2 Mounting the System Stirrup

Mount the system stirrup corresponding to the system width and production technique to the NEURO CLASSIC-SWING system ankle joint. Proceed as follows:

1. Grease the axle bore of the system stirrup as well as the friction surfaces of the bearing nut and the second sliding washer with the delivered orthosis joint grease.
2. Place the second sliding washer **slightly** greased on both sides onto the system stirrup (fig. 15).
3. Place the system stirrup from below between the cover plate and the joint's upper part. Make sure that the sliding washer remains in the correct position.
4. Put the bearing nut into the intended opening of the joint's upper part. The bearing nut must sit completely in the opening.
 - **correct** position of the bearing nut (fig. 16);
 - **incorrect** position of the bearing nut (fig. 17).
5. Turn in the second countersunk flat head screw (axle screw, S2; fig. 18) according to the torque given in the table (see paragraph 11.6).

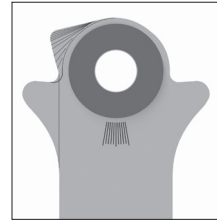


fig. 15

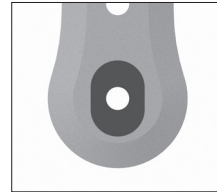


fig. 16

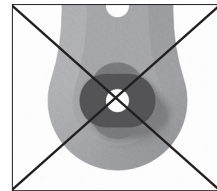


fig. 17

11.3 Checking the System Joint's Free Movement

If the system joint does not move freely, some of the spring force will be wasted by overcoming the friction forces. As a consequence, the joint function is restricted and the treatment goal might not be achieved.

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. For more information about the sliding washers see paragraph 15.2.

11.4 Mounting the Spring Unit

After having checked if the system joint moves freely and taken the corresponding actions, you can continue by mounting the spring unit. Proceed as follows:

1. Stick the screw unit onto the spring unit. The integrated O-ring fixes the spring unit so that it does not tilt during walking (fig. 19).
2. Now, turn in the sub-assembly consisting of spring unit and screw unit in the posterior spring duct (fig. 20) until it touches the system stirrup. It should still move freely. If you turn in the sub-assembly too far, the spring unit is preloaded too much and the maximum possible range of motion is restricted.

11.5 Basic Alignment

When mounting the system ankle joint, mind the correct adjustment of the dorsiflexion stop as it is decisive for the entire alignment of the orthosis. Correct the dorsiflexion stop, if necessary.

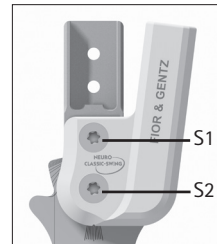


fig. 18

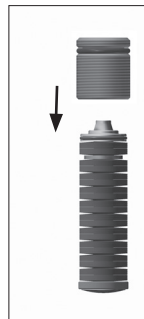


fig. 19

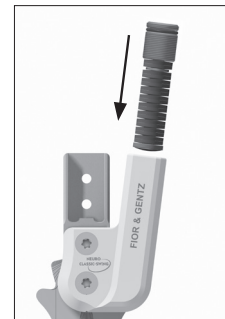


fig. 20

11.6 Securing the Screws

After the orthosis has been produced and tried on and before it will be given to the patient, secure the screws for the cover plate with a torque which corresponds to the system width (see table and cover plate of the system joint) and LOCTITE 243 medium strength (article no.: KL2000). Let the adhesive harden (final strength after approx. 24 hours).

Position of the Screw (fig. 18)	System Width				
	10mm	12mm	14mm	16mm	20mm
S1 (screw 1)	2.5Nm	4Nm	6Nm	6Nm	6Nm
S2 (screw 2, axle screw)	1.5Nm	3Nm	4Nm	4Nm	4Nm



The screws of the cover plate are not secured with the necessary torque at delivery.

12. Adjustment Options on the Orthosis

The NEURO CLASSIC-SWING system ankle joint can be individually adjusted to the patient's pathological gait with the help of four adjustment options (fig. 21):

- adjustable alignment using the alignment screw (1);
- adjustable range of motion using the motion limiting screw (2);
- interchangeable spring units:
 - spring unit with disc spring (3) or coil spring;
- dorsiflexion stop can be adjusted by filing (4).

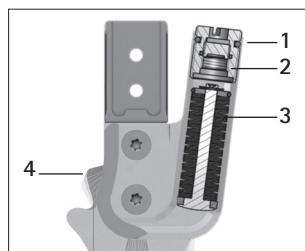


fig. 21

The four adjustment options do not influence each other. Therefore, they can be changed separately and independently.

12.1 Adjustable Alignment

The alignment of the orthosis has to be adjusted to the patient's pathological gait using the alignment screw. Furthermore, changes in the pathological gait can be treated flexibly.

To adjust the alignment of the orthosis, unscrew the alignment screw until you achieve the required angle between lower leg and foot (fig. 22). When you are planning the orthosis, please already consider that you should not readjust the system ankle joint more than 10° in plantar flexion after it has been mounted.

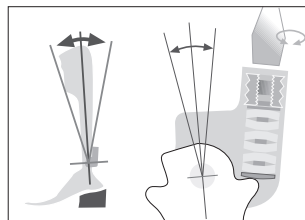


fig. 22

File the system stirrup until you have reached the required dorsiflexion (see paragraph 12.3). If you turn in the sub-assembly too far, the spring unit is preloaded too much and the maximum possible range of motion in plantar flexion is restricted. The position of the alignment screw will not change due to the O-ring that is mounted at the external thread of the alignment screw (fig. 23).

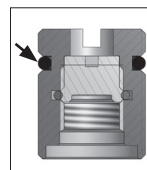


fig. 23

12.2 Adjustable Range of Motion in Plantar Flexion

The range of motion in plantar flexion is infinitely adjustable using the motion limiting screw (fig. 24). If the motion limiting screw is screwed in down to the spring unit, the plantar flexion is blocked and no movement in this direction is possible. The more the motion limiting screw is unscrewed, the more motion is possible in plantar flexion. However, the maximum available range of motion is set by the spring unit. The position of the motion limiting screw will not change due to the O-ring that is mounted at the internal thread of the alignment screw (fig. 25).

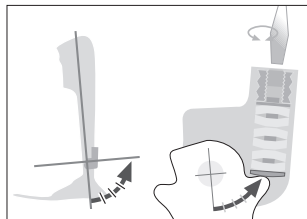


fig. 24

12.3 Adjustable Range of Motion in Dorsiflexion

The range of motion of the system ankle joint in dorsiflexion can be adjusted by filing the system stirrup. For this purpose, the system stirrup is marked with lines which serve as orientation (fig. 26). If the system stirrup is filed down to the circle, the system ankle joint becomes free moving in dorsiflexion.

If you only want to use the system joint with dorsiflexion stop and do not need the converting possibility to the NEURO SWING system ankle joint, you can completely file off the nose along the vertical line (fig. 26).

For patients with sufficiently working calf muscles, the dorsi-flexion stop can be adjusted by filing, also exceeding the spring's range limit. In this case, the idling causes a creaking noise when walking. However, this does not impair the joint function.



For more detailed information about the adjustment of the dorsiflexion stop please refer to the publications in the download section on our website at www.fior-gentz.com/downloads.

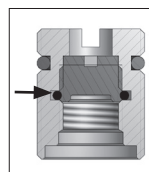


fig. 25

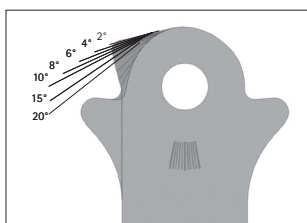


fig. 26

12.4 Variable Spring Force

The spring force in plantar flexion can be changed without great effort by using spring units of different strengths. There are five spring units with spring forces ranging from normal to extra strong (fig. 27). Each spring unit determines the maximum range of motion. They are available for 5°, 10° and 15° range of motion.

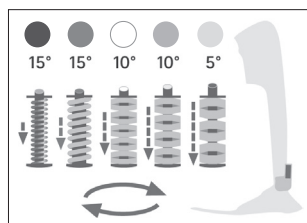


fig. 27

12.5 Reading Joint Angles

The lasered degree markings on the system stirrup and the lasered line on the cover plate (fig. 28) show the angle of the system joint towards the system stirrup. When handing over the orthosis, you can check the individual normal posture (the orthosis' basic alignment) by the markings. You can read as well as record the joint angle indicated at this time. By doing so, you can easily compare later adaptations or deviations of the individual normal posture with your documentation.



You will find more information about the individual normal posture on the internet at www.fior-gentz.com.

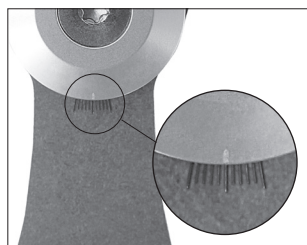


fig. 28

The distances between the degree markings for each system width can be seen in the following table.

Degree Marking					
System Width	10mm	12mm	14mm	16mm	20mm
Degree	5°	5°	2°	2°	2°

13. Conversion of a NEURO CLASSIC-SWING into a NEURO SWING System Ankle Joint

You can convert the NEURO CLASSIC-SWING system ankle joint into a NEURO SWING system ankle joint if you want to switch from a system joint with dynamic, adjustable plantar flexion stop to a system joint with dynamic dorsiflexion and plantar flexion stop.

To do so, file the system stirrup along the marked laser lines (fig. 29), demount the NEURO CLASSIC-SWING cover plate and mount the NEURO SWING cover plate in the appropriate system width (fig. 30). Please note that you need two spring units for the NEURO SWING system ankle joint.

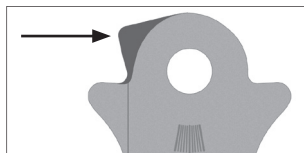


fig. 29

14. Advice on Production Techniques

Use the system components determined by the Orthosis Configurator when producing an orthosis and mind the recommended production technique.

14.1 Production Techniques Online

You will find detailed information about our production techniques in the section "Orthosis Production" under "Online Tutorials" and "Producing the Orthosis" on our website www.fior-gentz.com.

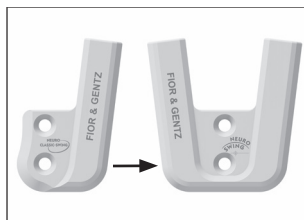


fig. 30

14.2 Parallel Alignment of System Joints

You will find the necessary tools for the parallel alignment of the system joints on the positive cast in our latest product catalogue System Joints and Articulated System Side Bars.

14.3 Mounting to the System Side Bar/System Anchor

Depending on the production technique, the system side bar/system anchor must be adhered and screwed or sewed together with the system joint (fig. 31-33). You will find further information concerning the different production techniques on the internet or in the manual System Side Bars and System Anchors (article no.: PB1000-SA).



fig. 31



fig. 32



fig. 33

15. Maintenance

When mounting and demounting the system joint too often, the bars of the cover plate can deform due to the elasticity of the material and thus cause lateral play in the system joint. In this case, the acting force of the spring unit can increase the play. Consequently, the bars of the cover plate can become progressively smaller and the clearance larger. To prevent the screws for the cover plate from loosening, we recommend to use LOCTITE 243 for the screw retention as well as LOCTITE 638 to adhere the cover plate to the joint's upper part.

In case of repeated maintenance of already adhered system joints, make sure that all adhesive residues are removed from the bars of the cover plate and the grooves of the joint's upper part before reassembling the system joint and fixing the cover plate with LOCTITE 638. For this purpose, heat the affected parts locally to about 250°C or use a suitable solvent. Remove the residues with a pointed tool such as an awl. Continue the assembly as described in paragraph 11.

We recommend checking the system joint's functionality and wear every **6 months**. Make sure in particular that the alignment of the orthosis, the range of motion and the spring force still correspond to the required adjustments. If you notice any changes in adjustment, check the joint components listed below, and, if necessary, carry out the following measures.

Joint Component	Problem	Measure
spring unit	breakage of disc springs (fig. 34)	replacing
	radial move of disc springs (fig. 35)	aligning with pliers
	squeaking of coil springs	greasing with orthosis joint grease
O-rings	wear	replacing
bore for bearing nut of system stirrup	oversize	inserting repair bushing, see paragraph 15.1
sliding washers	wear	replacing, see paragraph 15.2
bearing nut	wear	replacing

During maintenance, check the disc springs in detail, for example for any breaking points (fig. 34). If you notice a breakage, it is absolutely necessary to exchange the spring units. The disc springs might get displaced (fig. 35). To increase the service life of the spring units, realign the displaced disc springs with pliers.

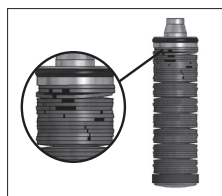


fig. 34

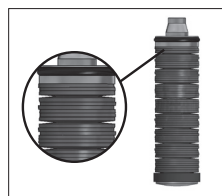


fig. 35

15.1 Repairing the Bearing Nut Bore

If the bore for the bearing nut is worn out at the system stirrup, bore (fig. 36) and ream (fig. 37) it with a reamer (see product catalogue **System Joints and Articulated System Side Bars**) in order to insert a repair bushing (boring and reaming measurements see table).

For a centred boring and reaming, clamp the system stirrup firmly. After inserting the repair bushing made of bronze (fig. 38), the bore has the specified size again. Now, the joint system is free of play once again (fig. 39).

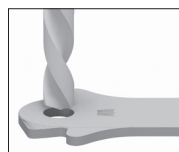


fig. 36

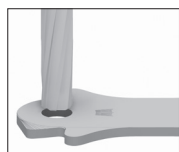


fig. 37

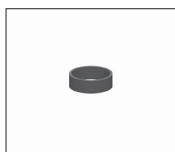


fig. 38

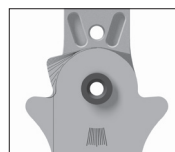


fig. 39

Boring and Reaming Measurements [mm]

System Width	Bearing Nut Outer Ø	Repair Bushing Inner Ø	Repair Bushing Outer Ø	Ø Measurement for Boring	Ø Measurement for Reaming	Art. No. Repair Bushing
10mm	6.0	6.0	7.0	6.7	7.0 H7	BP0706-L020
12mm	7.0	7.0	8.0	7.7	8.0 H7	BR0807-L020
14mm	8.5	8.5	9.6	9.3	9.6 H7	BR1009-L025
16mm	9.6	9.6	10.5	10.2	10.5 H7	BR1110-L030
20mm	10.5	10.5	11.5	11.2	11.5 H7	BR1211-L030

15.2 Replacing the Sliding Washers

If the premounted sliding washers wear out, they have to be replaced by new ones with the same thickness. The article numbers of the premounted sliding washers can be found on the back page of this manual. The last three digits of the article number stand for the thickness of the sliding washer, e.g. GS1407-**040**. The thickness of this sliding washer is 0.40mm. In total, the sliding washers are available in five different thicknesses. The thickness of a sliding washer is indicated by the markings. For example, a sliding washer with two grooves is 0.40mm thick, whereas a sliding washer with one notch is 0.55mm thick (fig. 40). Note and respect that when reordering.

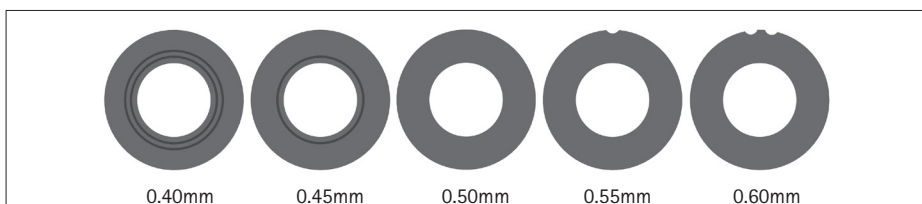


fig. 40

15.3 Cleaning

While using the orthosis, the system joint has to be cleaned if needed and during the regularly carried out maintenance. For this purpose, disassemble the system joint and clean the soiled system components with a dry cloth.

16. Disposal

Dispose of the system joint and its individual parts properly. The product must not be disposed of with the residual waste (fig. 41). Please comply with the applicable national laws and local regulations for the proper recycling of recyclable materials.



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

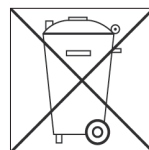


fig. 41

17. Spare Parts (see table and fig. 42)

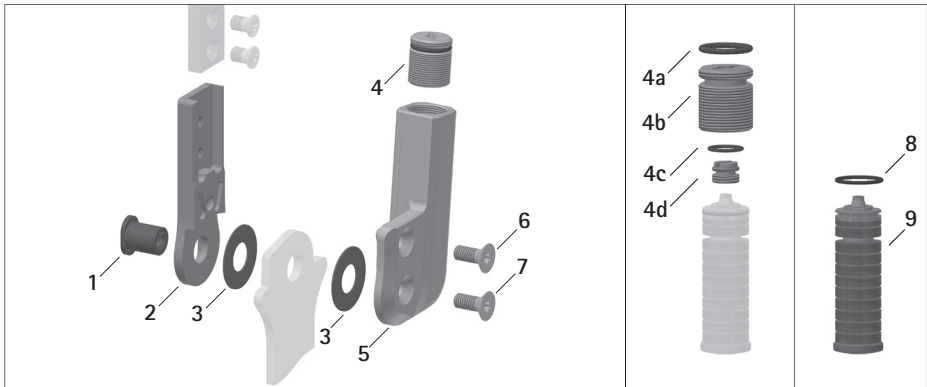


fig. 42

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
1	SB6039-L0530	SB7049-L0540	SB8559-L0580	SB9669-L0710	SB1069-L0810	bearing nut
2	SF0310-ST	SF0311-ST	SF0312-ST	SF0313-ST	SF0315-ST	upper part, straight, steel
2	-	SF0311-TI	SF0312-TI	SF0313-TI	SF0315-TI	upper part, straight, titanium
2	SF0330-ST	SF0331-ST	SF0332-ST	SF0333-ST	SF0335-ST	upper part, bent inwards, steel
2	-	SF0331-TI	SF0332-TI	SF0333-TI	SF0335-TI	upper part, bent inwards, titanium
2	SF0330-8/ST	SF0331-8/ST	SF0332-8/ST	SF0333-8/ST	SF0335-8/ST	upper part, bent outwards, steel
2	-	SF0331-8/TI	SF0332-8/TI	SF0333-8/TI	SF0335-8/TI	upper part, bent outwards, titanium
3	GS1206-*	GS1407-*	GS2009-*	GS2210-*	GS2611-*	sliding washer*
4	SC9609-L13	SC9611-L14	SC9612-L15	SC9614-L17	SC9618-L17	screw unit
4a	VE3771-06/11	VE3771-08/15	VE3771-09/15	VE3771-11/15	VE3771-125/15	O-ring for securing the alignment screw
4b	SC9609-L13/S	SC9611-L14/S	SC9612-L15/S	SC9614-L17/S	SC9618-L17/S	alignment screw, steel
4c	VE3771-03/10	VE3771-04/10	VE3771-04/10	VE3771-04/10	VE3771-07/10	O-ring for securing motion limiting screw
4d	SC9606-L05	SC9607-L06	SC9607-L06	SC9607-L06	SC9611-L06	motion limiting screw
5	SH0360-L/AL	SH0361-L/AL	SH0362-L/AL	SH0363-L/AL	SH0355-L/AL	cover plate, left lateral or right medial
5	SH0360-R/AL	SH0361-R/AL	SH0362-R/AL	SH0363-R/AL	SH0355-R/AL	cover plate, left medial or right lateral
6	SC1403-L08	SC1404-L10	SC1405-L11	SC1405-L12	SC1405-L12	countersunk flat head screw, hexalobular socket

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
7	SC1403-L08	SC1404-L10	SC1405-L11	SC1405-L12	SC1406-L12	countersunk flat head screw, hexalobular socket (axle screw)
4-7	SH3970-L/AL	SH3971-L/AL	SH3972-L/AL	SH3973-L/AL	SH3975-L/AL	functional unit NEURO CLASSIC-SWING, left lateral or right medial
4-7	SH3970-R/AL	SH3971-R/AL	SH3972-R/AL	SH3973-R/AL	SH3975-R/AL	functional unit NEURO CLASSIC-SWING, left medial or right lateral
8	VE3771-045/10	VE3771-06/10	VE3771-07/10	VE3771-08/10	VE3771-11/10	O-ring for securing the spring unit
9	SF5800-15/02	SF5801-15/03	SF5802-15/05	SF5803-15/07	SF5805-15/18**	spring unit, blue, normal, max. 15° range of motion
9	SF5800-15/04	SF5801-15/06	SF5802-15/11	SF5803-15/15	SF5805-15/25**	spring unit, green, medium, max. 15° range of motion
9	SF5800-10/06	SF5801-10/12	SF5802-09/16	SF5803-10/21	SF5805-10/40**	spring unit, white, strong, max. 10° range of motion
9	SF5800-10/09	SF5801-10/19	SF5802-10/29	SF5803-10/31	SF5805-10/60**	spring unit, yellow, very strong, max. 10° range of motion
9	SF5800-05/17	SF5801-05/33	SF5802-05/53	SF5803-05/63	SF5805-05/99**	spring unit, red, extra strong, max. 5° range of motion

** For all 20mm system joints, that you have purchased before May 2016, you need the spring units for the 16mm system width!

* Sliding Washers

Article Number for System Width				
10mm	12mm	14mm	16mm	20mm
Ø = 12mm	Ø = 14mm	Ø = 20mm	Ø = 22mm	Ø = 26mm
GS1206-040	GS1407-040	GS2009-040	GS2210-040	GS2611-040
GS1206-045	GS1407-045	GS2009-045	GS2210-045	GS2611-045
GS1206-050	GS1407-050	GS2009-050	GS2210-050	GS2611-055
GS1206-055	GS1407-055	GS2009-055	GS2210-055	GS2611-050
GS1206-060	GS1407-060	GS2009-060	GS2210-060	GS2611-060



When reordering, note and respect the thickness of the sliding washers (explanation see paragraph 15.2).

18. Accessory Parts

You will find a big variety of accessory parts in our latest product catalogue System Joints and Articulated System Side Bars.

19. Informationen für die Versorgungsdokumentation/Information for the Treatment Documentation

Bitte heften Sie diese Produktbeilage zu Ihrer Versorgungsdokumentation!
Add this manual to your treatment documentation!

Patientendaten/Patient's Data

Name Name	
Straße Address	
PLZ, Wohnort Postcode, City	
Telefon privat Home Telephone	
Telefon geschäftlich Telephone at Work	
Kostenträger Insurance	
Mitgliedsnummer Insurance No.	
Behandelnder Arzt Attending Physician	
Diagnose Diagnosis	

Die Angaben der Produktbeilage beziehen sich auf den aktuellen Stand bei Drucklegung. Produktangaben sind Richtwerte. Technische Änderungen vorbehalten.

Alle Urheberrechte, besonders die Rechte der Verbreitung, Vervielfältigung und Übersetzung, bleiben ausschließlich der FIOR & GENTZ Gesellschaft für Entwicklung und Vertrieb von orthopädiotechnischen Systemen mbH vorbehalten. Nachdrucke, Kopien sowie sonstige Vervielfältigungen elektronischer Art dürfen auch auszugswise nicht ohne schriftliche Genehmigung der FIOR & GENTZ Gesellschaft für Entwicklung und Vertrieb von orthopädiotechnischen Systemen mbH vorgenommen werden.

The information in this manual is valid at the date of printing. The contained product information serves as a guideline. Subject to technical modifications.

All rights, particularly the distribution, copy and translation of this manual or any part of it, in paper or as electronic document, must be authorised in writing by FIOR & GENTZ Gesellschaft für Entwicklung und Vertrieb von orthopädiotechnischen Systemen mbH. Reprints, copies and any other electronic reproduction, even partial, must be authorised in writing by FIOR & GENTZ Gesellschaft für Entwicklung und Vertrieb von orthopädiotechnischen Systemen mbH.

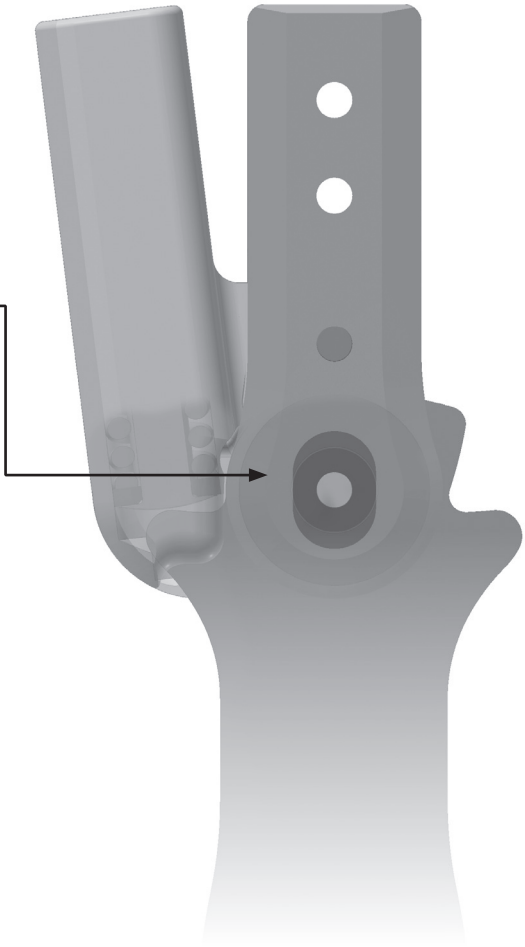
Beinseite
Leg Side

■ links/left ■ rechts/right

Montierte Gleitscheiben-Version
Mounted Sliding Washer Version

1. GS/SW _____ - _____

2. GS/SW _____ - _____



Der Qualitätsstandard der Firma FIOR & GENTZ ist durch eine unabhängige Zertifizierungsgesellschaft nach den internationalen Normen ISO 9001 und ISO 13485 geprüft und bescheinigt worden.

The quality standard of the FIOR & GENTZ company has been controlled and certified by an independent certification organisation according to the international standards ISO 9001 and ISO 13485.

PB3000-SH-06/2018