










Instructions for Use for Orthotists or Qualified/Trained Experts System Ankle Joints



	NEURO CLASSIC-SPRING		NEURO VARIO-SWING
	NEURO CLASSIC-SWING		NEURO SWING-CLASSIC
	NEURO VARIO-CLASSIC 2		NEURO SWING
	NEURO VARIO 2		NEURO SWING 2
	NEURO VARIO-SPRING 2		

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1. Information

These instructions for use are addressed to orthotists or qualified/trained experts and do not contain any notes about dangers which are obvious to them. To achieve maximum safety, please instruct the patient and/or care team in the use and maintenance of the product.



For a simplified illustration, all basic work steps are shown with the **NEURO VARIO-SWING** system ankle joint (fig. 1) as an example. They can be transferred to all mentioned system joints.



Fig. 1

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.
<i>NOTICE</i>	Important information about a possible situation which, if not avoided, leads to damage of the product.

All serious incidents according to Regulation (EU) 2017/745 which are related to the product have to be reported to the manufacturer and to the competent authority of the member state in which the orthotist or qualified/trained expert and/or the patient is established.

2.2 All Instructions for a Safe Handling of the 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 Improper Processing

Process the system joint according to the information in these instructions for use. Deviating processing and modifications of the system joint require the written consent of the manufacturer.

WARNING

Risk of Falling Due to Loosened Screws

Mount the cover plate to the system joint according to the assembly instructions in these instructions for use. 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 Incorrectly Selected System Components

Make sure that the system joint and the system components are not overloaded and are functionally adapted to the requirements and needs of the patient in order to avoid joint dysfunction.

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 expected load on the system joint, plan the treatment again and, if necessary, produce a new orthosis.

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.

WARNING

Risk of Falling Due to Excessive Readjustment of Spring Units/Screw Units

Adjust the spring units/screw units according to the information in these instructions for use. Do not make readjustments of more than 10°. Use the laser markings on the system stirrup and the joint's upper part to check the readjustment.

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 by Not Providing the Necessary 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 these instructions for use.

WARNING

Jeopardising the Therapy Goal by Incorrectly Filing the System Stirrup

If you need to file the system stirrup, note all information provided in these instructions for use. Do not file the system stirrup too far, especially for the dorsiflexion stop, otherwise the forefoot lever is not activated. As a result, the patient's gait worsens due to a lack of stability. Therefore:

- file the system stirrup always gradually up to the required stop angles and
- do not file it more than 10° later on.

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 worsens 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 connect 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

Limitation of the Joint Function Due to Improper Dirt Removal

Inform the patient on how to properly remove dirt from the orthosis and the system joint.

NOTICE

Limitation of the Joint Function Due to Lack of Maintenance

Respect the specified maintenance intervals in order to avoid joint dysfunction. Inform the patient about the maintenance appointments to be respected. Enter the next maintenance appointment in the orthosis service passport of the patient.

NOTICE

Breakage of System Components Due to Predetermined Breaking Point at the System Stirrup

If you need to file the system stirrup, note all information provided in these instructions for use in order to avoid predetermined breaking points. Grind the system stirrup along the laser lines.

3. Use

3.1 Intended Use

FIOR & GENTZ system ankle joints are exclusively for use for orthotic fittings of the lower extremity. The system joints are only allowed to be used for producing an AFO or a KAFO. Every system joint influences the orthosis' function and thus also the function of the leg. The system joint may only be used for one fitting and must not be reused.

3.2 Indication

The indications for the treatment with an orthosis for the lower extremity are insecurities that lead to a pathological gait. These can be caused, for example, by central, peripheral, spinal or neuromuscular paralyses, structurally conditioned deformities/malfunctions or surgery.

The physical conditions of the patient, such as muscle strength or activity level, are crucial for the orthotic treatment. An evaluation regarding the safe handling of the orthosis by the patient must be carried out.

All system ankle joints can also be used for the prosthetic treatment of patients with partial foot amputations. For this purpose, the orthosis produced for the patient by the orthotist or qualified/trained expert (custom-made product) is combined with a foot prosthesis. Further information can be found in the **Guide to Partial Foot Amputations**.

3.3 Contraindication

The system joint is not suitable for treatments that were not described in paragraph 3.2, such as a treatment of the upper extremity or a treatment with a prosthesis or ortho-prosthesis that affects more than just part of the foot, for example after amputations of leg segments.

3.4 Qualification










The system joint must only be handled by an orthotist or a qualified/trained expert.

3.5 Application

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.

3.6 Product Range

These instructions for use provide information on the following system ankle joints:

	NEURO CLASSIC-SPRING		NEURO VARIO-SWING
	NEURO CLASSIC-SWING		NEURO SWING-CLASSIC
	NEURO VARIO-CLASSIC 2		NEURO SWING
	NEURO VARIO 2		NEURO SWING 2
	NEURO VARIO-SPRING 2		

3.7 Combination Possibilities with Other System Joints

The system ankle joints can be combined with other system joints from our product range. The NEURO CLASSIC system ankle joint can be used as a supporting joint.

We recommend that you use the Orthosis Configurator when selecting all system components for your orthosis and follow the recommendations of the configuration result.

4. Joint Function

The system ankle joints have the following functions depending on the used system components:

System Component	Functions	System Joint
spring units	dorsal (posterior spring unit): - determination of the maximum range of motion in plantar flexion - integrated dorsiflexion assist - controlled lowering of the foot during loading response	NEURO CLASSIC-SWING NEURO VARIO-SWING NEURO SWING-CLASSIC NEURO SWING NEURO SWING 2
	ventral (anterior spring unit): - determination of the maximum range of motion in dorsiflexion - increased energy return during heel lift to support push off	
	dorsal and ventral: - dynamically bringing the patient into an upright position as well as stabilising the patient when walking and standing by balancing the body	
	motion limiting screw: - limitation of the maximum range of motion in both directions	

System Component	Functions	System Joint
screw units	adjustment of the orthosis' alignment	NEURO VARIO-CLASSIC 2 NEURO VARIO 2 NEURO VARIO-SPRING 2 NEURO VARIO-SWING

System Component	Functions	System Joint
coil spring in SPRING sub-assembly	dorsiflexion assist	NEURO CLASSIC-SPRING NEURO VARIO-SPRING 2

System Component	Functions	System Joint
system stirrup which can be adjusted by filing	dorsal: - adjustment of the range of motion in plantar flexion by filing the system stirrup along the laser lines	NEURO CLASSIC-SPRING NEURO CLASSIC-SWING NEURO SWING-CLASSIC
	ventral: - adjustment of the range of motion in dorsiflexion by filing the system stirrup along the laser lines	

5. Scope of Delivery

Description	Quantity
system ankle joint (without figure)	1
cover plate pressing aid (fig. 2)	1
AGOMET® F330, 5g (fig. 3)	1
orthosis joint grease, 3g (without figure)	1
assembly/lamination dummy (fig. 4)	1

The corresponding spring units and system stirrups have to be ordered separately.



Fig. 2



Fig. 3



Fig. 4

6. Load Capacity

The load capacity results from the relevant patient data and can be determined by using the Orthosis Configurator. We recommend that you use the system components determined by the Orthosis Configurator when producing an orthosis and mind the recommended production technique.

7. Tools for Assembling the System Joint

Tools for System Joint Screws	System Width				
	10mm	12mm	14mm	16mm	20mm
T10 hexalobular screwdriver/bit	x	-	-	-	-
T15 hexalobular screwdriver/bit	-	x	-	-	-
T20 hexalobular screwdriver/bit	-	-	x	x	x
torque screwdriver 1–6Nm	x	x	x	x	x
slotted screwdriver 3.5 x 0.6 x 100mm	x	x	x	x	x
hexagonal screwdriver with spherical head, 4 x 100mm	x	x	-	-	-
hexagonal screwdriver with spherical head, 5 x 100mm	-	-	x	x	x
pliers	x	x	x	x	x

Tools for Pressing Screw	System Width				
	10mm	12mm	14mm	16mm	20mm
T10 hexalobular screwdriver/bit	x	-	-	-	-
T15 hexalobular screwdriver/bit	-	x	-	-	-
T20 hexalobular screwdriver/bit	-	-	x	x	x

8. Disassembly and 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 8.9. The assembly is illustrated with the **NEURO VARIO-SWING** system ankle joint as an example.

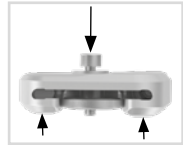


Fig. 5



Only use the FIOR & GENTZ orthosis joint grease to grease the system components.



Fig. 6

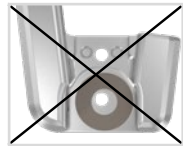


Fig. 7

8.1 Demounting the Cover Plate

- 1 Unscrew both countersunk flat head screws.
- 2 Place the washer on the cover plate and screw the pressing screw into the thread of the first screw (S1). The pressing screw must not be screwed in completely (fig. 5).
- 3 Push the joint's upper part and the cover plate apart by exerting force on them as illustrated (arrows in fig. 5). This can be achieved by using a vice or by controlled knocks (e.g. with a soft-faced hammer).
- 4 Remove pressing screw and washer.



Fig. 8

8.2 Mounting the Cover Plate



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

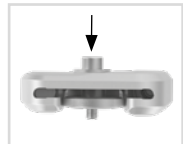


Fig. 9

- 1 Before the assembly, clean the thread of the bearing nut and of the joint's upper part as well as the bores of the cover plate with LOCTITE® 7063 Super Clean. Allow the threads to air-dry for 10 minutes.
- 2 Apply spray adhesive on one side of the first sliding washer and adhere it to the cover plate (fig. 6).
- 3 Grease the other side **slightly** with orthosis joint grease.
- 4 Grease the lateral contact surfaces of the joint's upper part to the cover plate with orthosis joint grease (fig. 8).
- 5 Mount the cover plate by pressing it with the pressing screw and the washer (fig. 9).



Fig. 10

- 6 Remove pressing screw and washer.
- 7 Screw in the first countersunk flat head screw (S1; fig. 10).
- 8 Make sure that there is no opening left between the cover plate and the joint's upper part (fig. 11).



Fig. 11

8.3 Mounting the System Stirrup

- 1 Grease the sliding surfaces of the bearing nut as well as the contact surfaces of the system stirrup between system stirrup and spring units with orthosis joint grease.
- 2 Grease the second sliding washer slightly on both sides and place it on the system stirrup so that there is one sliding washer on each side (fig. 12).
- 3 Slide 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 Place the bearing nut into the intended hollow on the joint's upper part. The bearing nut must be fully inserted in the hollow (fig. 13).
- 5 Screw in the second countersunk flat head screw (axle screw, S2; fig. 15).



Fig. 12



Fig. 13

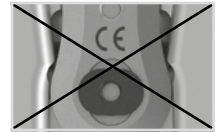


Fig. 14

8.4 Checking the System Joint's Free Movement

Tighten the screws for the cover plate with the appropriate torque (see paragraph 8.9). 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.



Fig. 15

8.5 Assembly of the Spring Unit NEURO CLASSIC-SWING, NEURO SWING-CLASSIC, NEURO VARIO-SWING, NEURO SWING

For system ankle joints without a spring unit, skip these steps and continue the assembly at paragraph 8.7. Please note that the assembly of the spring units for the NEURO SWING 2 system ankle joint is described separately.

- 1 Stick the screw unit onto the spring unit (fig. 16).
- 2 Screw in the sub-assembly into the spring duct (fig. 17). The O-ring must no longer be visible. If the system joint has two spring units, start by screwing the sub-assembly for dorsiflexion into the anterior spring duct until the required alignment of the orthosis is achieved. Continue with screwing the spring unit for plantar flexion into the posterior spring duct until it touches the system stirrup. Do not preload the spring units.



Fig. 16



Fig. 17



If the O-ring of the screw unit is still visible after you have screwed the spring unit into the system joint, check the adjustment of the system joint and contact Technical Support, if necessary.

- 3 Make sure that there is no play in the system joint. Check this by slightly moving the system joint in the ap direction.
- 4 Make sure that the system joint is aligned within the degree markings.

8.6 Assembly of the Spring Units NEURO SWING 2

- 1 Assemble the stop damper/O-ring damper (2) and the sliding bushing (3) with the plunger (1; fig. 18). Make sure that the sliding bushing is correctly positioned on the plunger (fig. 19).
- 2 Put the coil spring (4) on top.
- 3 Insert the plunger (1) including the assembled system components (2, 3, 4) in the spring duct.
- 4 Stick the screw unit (6) onto the spring unit (5).
- 5 Screw the sub-assembly for dorsiflexion into the anterior spring duct until the required alignment of the orthosis is achieved. The O-ring must no longer be visible. The coil spring (4) must be completely compressed.
- 6 Screw the sub-assembly for plantar flexion into the posterior spring duct until it touches the system stirrup. The O-ring must no longer be visible. The coil spring (4) must be completely compressed. You will feel a slightly increased turning resistance. Do not preload the spring units (5).

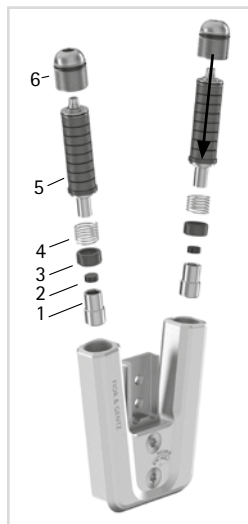


Fig. 18



If the O-ring of the screw unit is still visible after you have screwed the spring unit into the system joint, check the adjustment of the system joint and contact Technical Support, if necessary.

- 7 Make sure that there is no play in the system joint. Check this by slightly moving the system joint in the ap direction.
- 8 Make sure that the system joint is aligned within the degree markings.

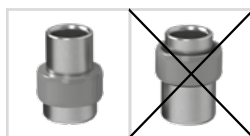


Fig. 19



Please note that you must use different spring units for the NEURO SWING 2 than for the other system ankle joints.

8.7 Assembly of the SPRING Sub-Assembly NEURO CLASSIC-SPRING, NEURO VARIO-SPRING 2

For system ankle joints without SPRING sub-assembly, skip these steps and continue the assembly at paragraph 8.8.

- 1 Stick the ball (1) into the pin (2; fig. 20).
- 2 Insert the system components into the spring duct.
- 3 Insert the coil spring (3) into the spring duct.
- 4 Screw in the pressure screw (4) tightly. In doing so, the sub-assembly is attached to the cover plate.

8.8 Assembly of the Screw Unit NEURO VARIO-CLASSIC 2, NEURO VARIO 2, NEURO VARIO-SPRING 2, NEURO VARIO-SWING

For system ankle joints without screw unit, skip these steps and continue the assembly at paragraph 8.9.

- 1 Assemble the stop damper/O-ring damper (6) and the sliding bushing (7) with the plunger (5; fig. 20). Make sure that the sliding bushing is correctly positioned on the plunger (fig. 19).
- 2 Put the coil spring (8) on top.
- 3 Insert the plunger (5) including the assembled system components (6, 7, 8) in the spring duct.
- 4 Screw in the alignment screw (9; fig. 20) into the screw duct (fig. 21). In the desired dorsiflexion, the coil spring must be completely compressed.
- 5 Make sure that the system joint is aligned within the degree markings.

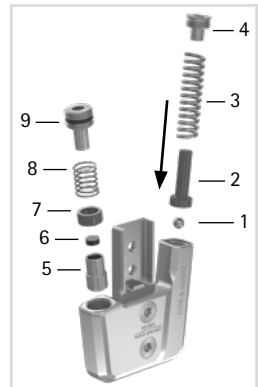


Fig. 20



Fig. 21



Screw the pressure screw in or out carefully to prevent the coil spring from jumping out unintentionally.

8.9 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 Loosen the screws for the cover plate (fig. 15) after checking the system joint's free movement and remove them from the cover plate.
- 2 Apply a small drop of LOCTITE® 243 medium strength to the thread of the screws.
- 3 Secure the screws for the cover plate (fig. 15) with the torque corresponding to the system width.
- 4 Let the adhesive harden (final strength after approx. 24 hours).

Screws for Cover Plate	System Width				
	10mm	12mm	14mm	16mm	20mm
pressing screw for cover plate pressing aid	2.5Nm	4Nm	6Nm	6Nm	6Nm
countersunk flat head screw with hexalobular socket (S1)	2.5Nm	4Nm	6Nm	6Nm	6Nm
countersunk flat head screw with hexalobular socket (axle screw, S2)	1.5Nm	3Nm	4Nm	4Nm	4Nm



The screws for 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. Adjustment Options on the Orthosis

The orthosis can be individually adapted to the patient's needs with adjustable system ankle joints. The adjustments described do not influence each other and can be made independently of each other.



Mind the correct adjustment of the dorsiflexion stop when mounting the system ankle joint. It is decisive for the entire alignment of the orthosis.

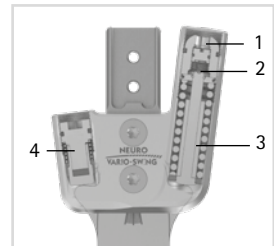


Fig. 22

9.1 Adjustable Alignment

The alignment of the orthosis can be adjusted with the alignment screw (1; fig. 22). Screw in or unscrew the alignment screw to change the angle between lower leg and foot (fig. 23). Be careful not to readjust more than 10°. Do not preload the spring unit as this will restrict the maximum possible range of motion and may damage the system joint.

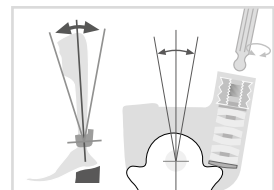


Fig. 23

9.2 Adjustable Range of Motion

The range of motion in plantar flexion or dorsiflexion is infinitely adjustable with the motion limiting screw (2; fig. 22). Each spring unit determines the maximum possible range of motion. They are available for 5°, 10° and 15° range of motion. By screwing in the motion limiting screw, the respective maximum possible range of motion can be limited or completely blocked (fig. 24).

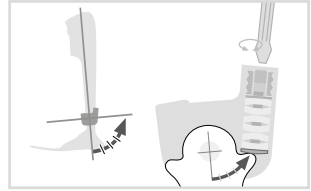


Fig. 24

9.3 Variable Spring Force

The spring force can be changed by exchanging the spring units (3; fig. 22). Insert a spring unit into the spring duct that corresponds with the required spring force. There are five spring units with spring forces ranging from normal to extra strong (fig. 25). Note that the spring unit determines the maximum possible range of motion.

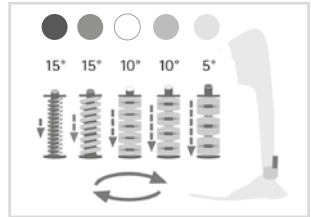


Fig. 25

9.4 Fine Adjusting the Range of Motion

Use the screw unit (4; fig. 22) of the system joint to fine adjust the range of motion up to 10°. To do so, screw or unscrew the screw unit in the system joint. Note that no more than 10° fine adjustment is allowed. The plunger of the screw unit should not lose contact with the system stirrup (maximum 15° in plantar flexion) in the entire range of motion as otherwise noises will occur.

9.5 Adjustable Range of Motion

The maximum range of motion in dorsiflexion or plantar flexion can be adjusted by filing the system stirrup provided that the system joint has a system stirrup that can be filed (fig. 26 and 27). If you file the system stirrup down to the circle, the system ankle joint becomes free moving in dorsiflexion or plantar flexion.

If you do not need the conversion options (see paragraph 11), you can completely file off the nose along the vertical line (fig. 32 and 33).

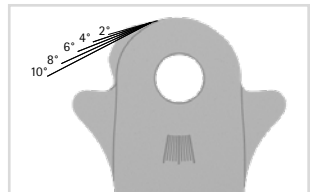


Fig. 26

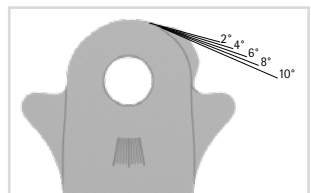


Fig. 27

9.6 Reading the Joint Angles

There are markings (fig. 28) on all system joints and system stirrups which indicate the angle of the system components to each other. This allows you to check the individual normal posture (the orthosis' basic alignment), record the joint angle and compare later deviations. The joint angle in the individual normal posture must not be outside the degree markings.

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

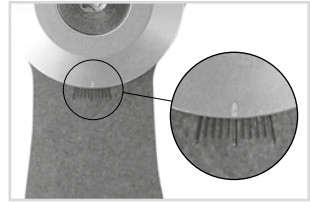


Fig. 28

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

10. Notes on the Production of the Orthosis

10.1 Mounting to the System Side Bar/System Anchor

The system side bar/system anchor must be connected to the system joint by adhering or screwing and wrapping in accordance with the production technique provided in the planning (fig. 29-31). You will find more detailed information in the *Instructions for Use for Orthotists or Qualified/Trained Experts System Side Bars and System Anchors*.



Fig. 29



Fig. 30

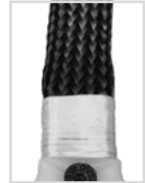


Fig. 31

10.2 Grinding the Orthosis Parts

After tempering the orthosis parts, grind the laminate edges. Be careful not to grind the lateral surfaces of the joint's upper part. This can damage the fit between the joint's upper part and the cover plate, which can lead to mechanical noises and to the breakage of the feather keys with pin.

You will find information on the production techniques in the section "Online Tutorials" on our website www.fior-gentz.com.

11. Converting the System Ankle Joints

11.1 Conversion Options

The following table shows the conversion options for the system ankle joints.

System Ankle Joint	Convertible into
NEURO CLASSIC-SPRING	NEURO VARIO-CLASSIC 2 NEURO VARIO 2
NEURO CLASSIC-SWING	NEURO VARIO-SPRING 2 NEURO VARIO-SWING
NEURO SWING-CLASSIC	NEURO SWING NEURO SWING 2 NEURO HiSWING
NEURO VARIO-CLASSIC 2	NEURO VARIO 2 NEURO VARIO-SPRING 2 NEURO VARIO-SWING NEURO SWING NEURO SWING 2 NEURO HiSWING
NEURO VARIO 2	NEURO VARIO-CLASSIC 2 NEURO VARIO-SPRING 2 NEURO VARIO-SWING NEURO SWING NEURO SWING 2 NEURO HiSWING
NEURO VARIO-SPRING 2	NEURO VARIO-CLASSIC 2 NEURO VARIO 2 NEURO VARIO-SWING NEURO SWING NEURO SWING 2 NEURO HiSWING
NEURO VARIO-SWING	NEURO VARIO-CLASSIC 2 NEURO VARIO 2 NEURO VARIO-SPRING 2 NEURO SWING NEURO SWING 2 NEURO HiSWING
NEURO SWING	NEURO VARIO-CLASSIC 2 NEURO VARIO 2 NEURO VARIO-SPRING 2 NEURO VARIO-SWING NEURO SWING 2 NEURO HiSWING
NEURO SWING 2	NEURO VARIO-CLASSIC 2 NEURO VARIO 2 NEURO VARIO-SPRING 2 NEURO VARIO-SWING NEURO SWING NEURO HiSWING

11.2 plug + go Modularity

The system ankle joints with **plug + go modularity** have identical system stirrups, joint's upper parts and assembly/lamination dummies and can be easily converted among themselves. All functional differences can be found in the functional unit. The following system ankle joints are provided with **plug + go modularity**:

- NEURO VARIO-CLASSIC 2
- NEURO VARIO 2
- NEURO VARIO-SPRING 2
- NEURO VARIO-SWING
- NEURO SWING
- NEURO SWING 2
- NEURO HiSWING

11.3 Conversion

Step 1 is only necessary for the **NEURO CLASSIC-SPRING**, **NEURO CLASSIC-SWING** and **NEURO SWING-CLASSIC** system joints. Start converting the other system joints with step 2. Step 3 is only necessary for a conversion to the **NEURO HiSWING** system joint.

- 1 Grind the system stirrup along the laser line (fig. 32 and 33).
- 2 Demount the functional unit or the cover plate.
- 3 Mount the spirit level laterally on the lower leg shell.
- 4 Mount the functional unit of the desired system joint in the correct system width (see example fig. 34).

When mounting the functional unit, follow the work steps in paragraphs 8 and 10.2.

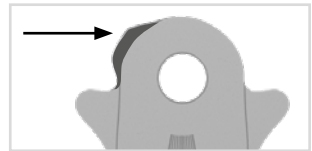


Fig. 32

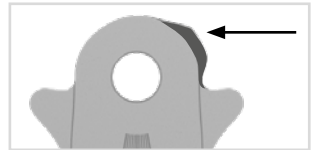


Fig. 33

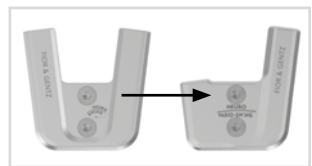


Fig. 34

12. Maintenance

Check the system joint regularly for wear and functionality. In particular, check the joint components listed in the following table for the possible problems described and, if necessary, take the appropriate measures. Also check the functionality after every maintenance carried out. It must be possible to move the system joint without problems or unusual noises. Make sure that there is no lateral play and no play around the axis.

Joint Component	Potential Problem	Measure	Inspection/ Replacement, If Necessary	Latest Replacement
spring unit	wear	replacing spring unit	every 6 months	every 18 months
	radial move of disc springs (fig. 36)	realigning disc springs with pliers	every 6 months	every 18 months
	squeaking of coil spring	greasing coil spring with orthosis joint grease	every 6 months	every 18 months
coil spring	wear	replacing coil spring	every 6 months	every 18 months
sliding bushing	wear	replacing sliding bushing	every 6 months	every 18 months
stop damper/ O-ring damper	wear	replacing stop damper/ O-ring damper	every 6 months	every 18 months
O-ring	wear	replacing O-ring	every 6 months	every 18 months
sliding washer	wear	replacing sliding washer, see paragraph 12.3	every 6 months	every 18 months
cover plate	wear	replacing cover plate	every 6 months	every 36 months
countersunk flat head screw	wear	replacing countersunk flat head screw	every 6 months	every 36 months
pin	wear	replacing pin	every 6 months	every 36 months
bearing nut	wear	replacing bearing nut	every 6 months	every 36 months
feather key with pin	breakage	replacing feather key with pin	every 6 months	every 36 months
system stirrup	wear or breakage	replacing system stirrup	every 6 months	every 48 months
O-ring for secur- ing the spring unit	wear	replacing O-ring	every 6 months	not applicable
plunger	wear	replacing plunger	every 6 months	not applicable

Clean the thread of the bearing nut and of the joint's upper part as well as the bores of the cover plate with LOCTITE® 7063 Super Clean at every maintenance. Allow the threads to air-dry for 10 minutes.

Secure the screws for the cover plate with the appropriate torque and LOCTITE® 243 medium strength during every maintenance (see paragraph 8.9). Remove all adhesive residues first.

12.1 Documentation of Maintenance in the Orthosis Service Passport

The patient receives an orthosis service passport from their orthotist or a qualified/trained expert, when the orthosis is handed over. The orthosis must be checked every 6 months in order to maintain its function and to ensure the safety of the patient. The maintenance appointments are noted and confirmed in the orthosis service passport.



Fig. 35

12.2 Maintenance of the Disc Springs

Check the disc springs particularly carefully during maintenance. If necessary, realign the disc springs to increase the useful life of the spring unit. If necessary, replace the spring unit to maintain the functionality of the system joint.



Fig. 36

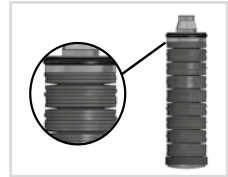


Fig. 37

12.3 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. 38). You will find the article numbers of the premounted sliding washers on the back page of these instructions for use.

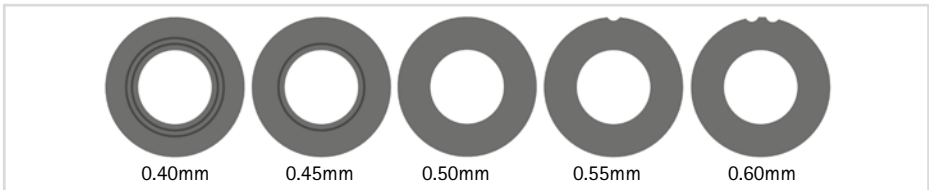


Fig. 38

12.4 Dirt Removal

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

13. Period of Use

To guarantee a safe use and complete functionality as well as an unlimited period of use of the system joints, you must adhere to the following conditions:

- Adhere to the specified maintenance intervals without interruption and document each maintenance (see paragraph 12).
- Adhere to the determined maintenance conditions (see paragraph 12).
- Check the wear parts, as required, and exchange them in the defined intervals (see paragraph 12).
- Check the adjustment of the system joint during maintenance and correct it, if necessary (see paragraph 12).
- Check the functionality of the system joint during maintenance (see paragraph 12).
- The maximum load determined during the planning of the custom-made product shall not be exceeded by changes in the patient data (e.g. due to weight gain, growth or increased activity). If the determined maximum load on the system joints is exceeded, the system joint must no longer be used. When planning the custom-made product, expected changes in patient data need to be taken into account.
- The period of use of the system joints ends with the period of use of the custom-made product (orthosis).
- The multiple use of the system joint in another custom-made product is not allowed (see paragraph 19).

14. Storage

It is recommended to store the system joint in its original packaging until the custom-made product is produced.

15. Spare Parts

15.1 Exploded View Drawing NEURO VARIO-SWING

The exploded view drawing of the NEURO VARIO-SWING system ankle joint also serves as an exemplary illustration for the NEURO CLASSIC-SWING, NEURO VARIO-CLASSIC 2, NEURO VARIO 2, NEURO SWING-CLASSIC and NEURO SWING system ankle joints.

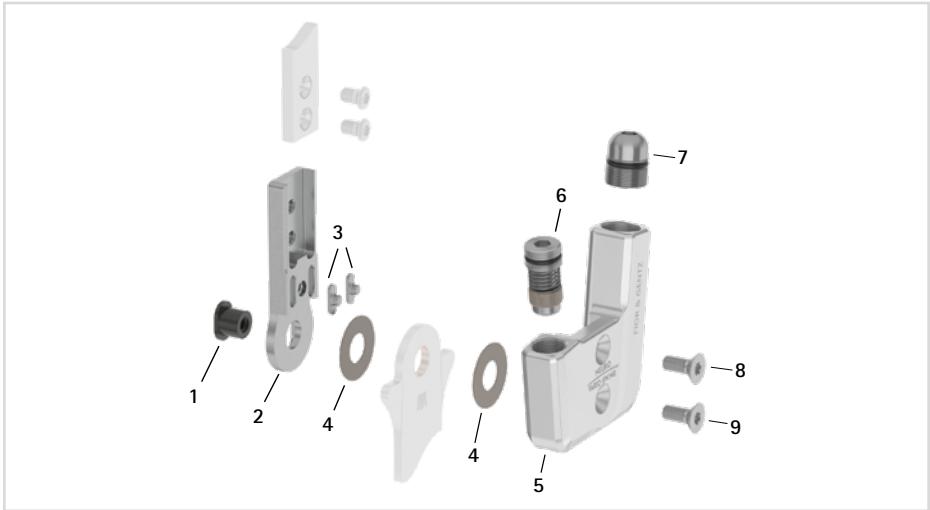


Fig. 39

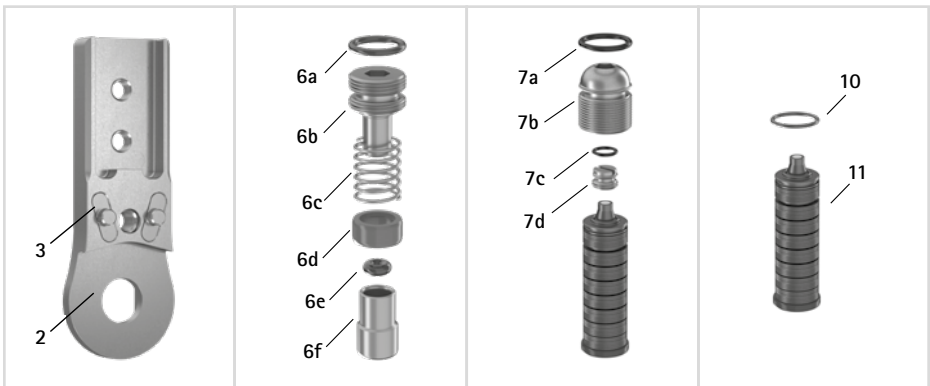


Fig. 40

15.2 Exploded View Drawing NEURO VARIO-SPRING 2

The exploded view drawing of the NEURO VARIO-SPRING 2 system ankle joint also serves as an exemplary illustration for the NEURO CLASSIC-SPRING system ankle joint.

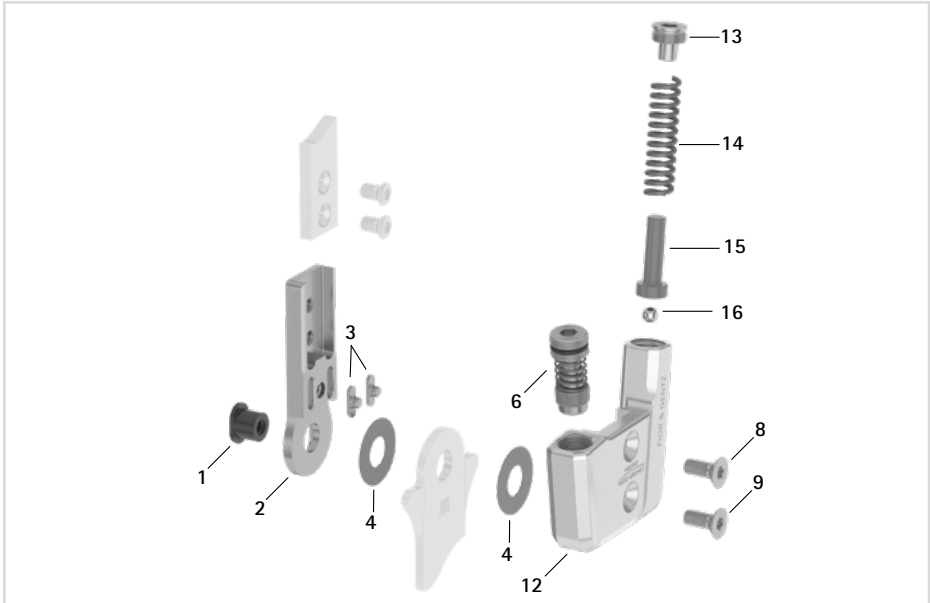


Fig. 41

15.3 Exploded View Drawing NEURO SWING 2

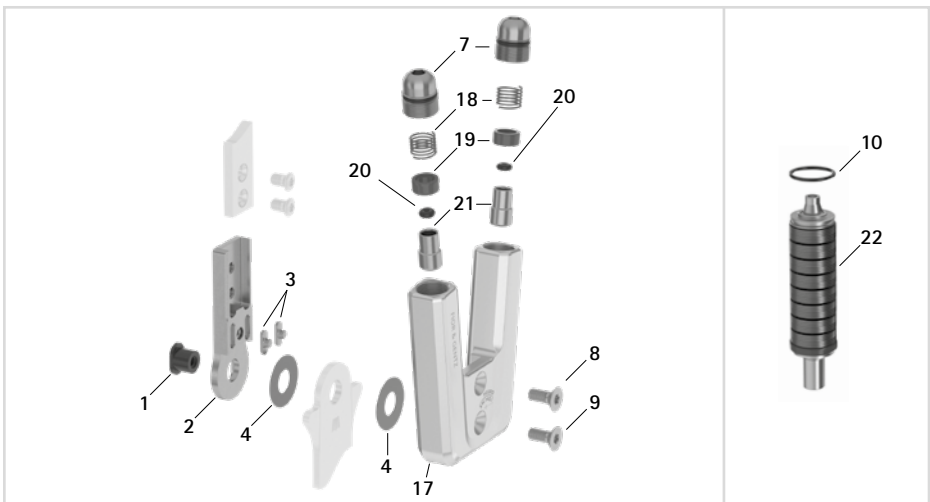


Fig. 42

15.4 Spare Parts for All System Ankle Joints

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
1	SB6039-L0580	SB7049-L0590	SB8559-L0630	SB9669-L0760	SB1069-L0960	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	SF0390-01	SF0391-01	SF0392-02	SF0393-02	SF0395-02	feather key with pin
2-3	SF0310-P/ST	SF0311-P/ST	SF0312-P/ST	SF0313-P/ST	SF0315-P/ST	upper part with feather keys, straight, steel
2-3	-	SF0311-P/TI	SF0312-P/TI	SF0313-P/TI	SF0315-P/TI	upper part with feather keys, straight, titanium
2-3	SF0330-P/ST	SF0331-P/ST	SF0332-P/ST	SF0333-P/ST	SF0335-P/ST	upper part with feather keys, bent inwards, steel
2-3	-	SF0331-P/TI	SF0332-P/TI	SF0333-P/TI	SF0335-P/TI	upper part with feather keys, bent inwards, titanium
2-3	SF0330-8P/ST	SF0331-8P/ST	SF0332-8P/ST	SF0333-8P/ST	SF0335-8P/ST	upper part with feather keys, bent outwards, steel
2-3	-	SF0331-8P/TI	SF0332-8P/TI	SF0333-8P/TI	SF0335-8P/TI	upper part with feather keys, bent outwards, titanium
4	GS1206-*	GS1407-*	GS2009-*	GS2210-*	GS2611-*	sliding washer*
8	SC1403-L08	SC1404-L10	SC1405-L11	SC1405-L12	SC1405-L14	countersunk flat head screw with hexalobular socket
9	SC1403-L08	SC1404-L10	SC1405-L11	SC1405-L12	SC1406-L14	countersunk flat head screw with hexalobular socket (axle screw)

All system stirrups of the system ankle joints are delivered with an integrated sliding bushing.

* 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	GS2611-050
	GS1206-055	GS1407-055	GS2009-055	GS2210-055	GS2611-055
	GS1206-060	GS1407-060	GS2009-060	GS2210-060	GS2611-060

15.5 Spare Parts for Screw Unit **NEURO VARIO-SWING**, **NEURO VARIO 2**, **NEURO VARIO-CLASSIC 2**, **NEURO VARIO-SPRING 2**

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
6	SC9607-L04	SC9608-L06	SC9611-L08	SC9612-L08	SC9612-L08	screw unit
6a	VE3771-04/10	VE3771-050/10	VE3771-08/15	VE3771-09/15	VE3771-09/15	O-ring for securing the alignment screw
6b	SC9607-L04/S	SC9608-L06/S	SC9611-L08/S	SC9612-L08/S	SC9612-L08/S	alignment screw, steel
6c	FE1615-01	FE1611-01	FE1916-01	FE1027-01	FE1027-01	coil spring
6d	GS0604-350	GS0705-525	GS1007-350	GS1108-500	GS1108-500	sliding bushing
6e	PN0003-L02	PN0004-L02	-	-	-	stop damper
6e	-	-	VE3771-010/20	VE3771-012/26	VE3771-012/26	O-ring damper
6f	SH0490-01	SH0491-01	SH0492-01	SH0493-01	SH0493-01	plunger

15.6 Spare Parts for Screw Unit **NEURO CLASSIC-SWING, NEURO SWING-CLASSIC, NEURO VARIO-SWING, NEURO SWING, NEURO SWING 2**

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
7	SC9609-L13	SC9611-L14	SC9612-L15	SC9614-L17	SC9618-L17	screw unit
7a	VE3771-06/11	VE3771-08/15	VE3771-09/15	VE3771-11/15	VE3771-125/15	O-ring for securing the alignment screw
7b	SC9609-L13/S	SC9611-L14/T	SC9612-L15/T	SC9614-L17/T	SC9618-L17/T	alignment screw
7c	VE3771-03/10	VE3771-04/10	VE3771-04/10	VE3771-04/10	VE3771-07/10	O-ring for securing the motion limiting screw
7d	SC9606-L05	SC9607-L06	SC9607-L06	SC9607-L06	SC9611-L06	motion limiting screw

15.7 Spare Parts for SPRING Sub-Assembly **NEURO CLASSIC-SPRING, NEURO VARIO-SPRING 2**

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
13	SC2007-L04	SC2008-L04	SC2009-L05	SC2011-L05	SC2011-L05	pressure screw
14	FE1622-01	FE1734-01	FE2736-01	FE2945-01	FE2966-01	coil spring, golden
15	SF0840-07	SF0841-07	SF0842-08	SF0843-10	SF0845-10	pin
16	KU1004-ST	KU1004-ST	KU1004-ST	KU1005-ST	KU1005-ST	ball

15.8 Spring Units **NEURO CLASSIC-SWING, NEURO VARIO-SWING, NEURO SWING-CLASSIC, NEURO SWING**

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
10	VE3771-045/10	VE3771-06/10	VE3771-07/10	VE3771-08/10	VE3771-11/10	O-ring for securing the spring unit
11	SF5800-15/02	SF5801-15/03	SF5802-15/05	SF5803-15/07	SF5805-15/18	spring unit, blue, normal, max. 15° range of motion
11	SF5800-15/04	SF5801-15/06	SF5802-15/11	SF5803-15/15	SF5805-15/25	spring unit, green, medium, max. 15° range of motion
11	SF5800-10/06	SF5801-10/12	SF5802-09/16	SF5803-10/21	SF5805-10/40	spring unit, white, strong, max. 10° range of motion
11	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
11	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

15.9 Spring Units **NEURO SWING 2**

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
10	VE3771-045/10	VE3771-06/10	VE3771-07/10	VE3771-08/10	VE3771-11/10	O-ring for securing the spring unit
22	SH5800-15/02	SH5801-15/03	SH5802-15/05	SH5803-15/07	SH5805-15/18	spring unit, blue, normal, max. 15° range of motion
22	SH5800-15/04	SH5801-15/06	SH5802-15/11	SH5803-15/15	SH5805-15/25	spring unit, green, medium, max. 15° range of motion
22	SH5800-10/06	SH5801-10/12	SH5802-09/16	SH5803-10/21	SH5805-10/40	spring unit, white, strong, max. 10° range of motion
22	SH5800-10/09	SH5801-10/19	SH5802-10/29	SH5803-10/31	SH5805-10/60	spring unit, yellow, very strong, max. 10° range of motion
22	SH5800-05/17	SH5801-05/33	SH5802-05/53	SH5803-05/63	SH5805-05/99	spring unit, red, extra strong, max. 5° range of motion

15.10 Spare Parts for the NEURO CLASSIC–SPRING System Ankle Joint

The assignment of the items as shown in the exploded view drawing of the NEURO VARIO–SPRING 2 system ankle joint serves as guidance. The spare parts of the NEURO CLASSIC–SPRING system ankle joint are not identical to the picture.

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
12	SF0760-L/AL	SF0761-L/AL	SF0762-L/AL	SF0763-L/AL	SF0765-L/AL	cover plate, left lateral or right medial
12	SF0760-R/AL	SF0761-R/AL	SF0762-R/AL	SF0763-R/AL	SF0765-R/AL	cover plate, left medial or right lateral
8-9, 12- 16	SF7970-L/AL	SF7971-L/AL	SF7972-L/AL	SF7973-L/AL	SF7975-L/AL	functional unit plug + go modularity, left lateral or right medial
8-9, 12- 16	SF7970-R/AL	SF7971-R/AL	SF7972-R/AL	SF7973-R/AL	SF7975-R/AL	functional unit plug + go modularity, left medial or right lateral

15.11 Spare Parts for the NEURO CLASSIC–SWING System Ankle Joint

The assignment of the items as shown in the exploded view drawing of the NEURO VARIO–SWING system ankle joint serves as guidance. The spare parts of the NEURO CLASSIC–SWING system ankle joint are not identical to the picture.

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
5	SH0360-2L/AL	SH0361-2L/AL	SH0362-2L/AL	SH0363-2L/AL	SH0355-2L/AL	cover plate, left lateral or right medial
5	SH0360-2R/AL	SH0361-2R/AL	SH0362-2R/AL	SH0363-2R/AL	SH0355-2R/AL	cover plate, left medial or right lateral
5, 7-9	SH3970-L/AL	SH3971-L/AL	SH3972-L/AL	SH3973-L/AL	SH3975-L/AL	functional unit, left lateral or right medial
5, 7-9	SH3970-R/AL	SH3971-R/AL	SH3972-R/AL	SH3973-R/AL	SH3975-R/AL	functional unit, left medial or right lateral

.....

15.12 Spare Parts for the **NEURO VARIO-CLASSIC 2** System Ankle Joint

The assignment of the items as shown in the exploded view drawing of the **NEURO VARIO-SWING** system ankle joint serves as guidance. The spare parts of the **NEURO VARIO-CLASSIC 2** system ankle joint are not identical to the picture.

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
5	SH0660-L/AL	SH0661-L/AL	SH0662-L/AL	SH0663-L/AL	SH0665-L/AL	cover plate, left lateral or right medial
5	SH0660-R/AL	SH0661-R/AL	SH0662-R/AL	SH0663-R/AL	SH0665-R/AL	cover plate, left medial or right lateral
5-6, 8-9	SH6970-L/AL	SH6971-L/AL	SH6972-L/AL	SH6973-L/AL	SH6975-L/AL	functional unit plug + go modularity, left lateral or right medial
5-6, 8-9	SH6970-R/AL	SH6971-R/AL	SH6972-R/AL	SH6973-R/AL	SH6975-R/AL	functional unit plug + go modularity, left medial or right lateral

15.13 Spare Parts for the **NEURO VARIO 2** System Ankle Joint

The assignment of the items as shown in the exploded view drawing of the **NEURO VARIO-SWING** system ankle joint serves as guidance. The spare parts of the **NEURO VARIO 2** system ankle joint are not identical to the picture.

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
5	SF0660-AL	SF0661-AL	SF0662-AL	SF0663-AL	SF0665-AL	cover plate
5-6, 8-9	SF6970-AL	SF6971-AL	SF6972-AL	SF6973-AL	SF6975-AL	functional unit plug + go modularity

15.14 Spare Parts for the **NEURO VARIO-SPRING 2** System Ankle Joint

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
12	SF0860-L/AL	SF0861-L/AL	SF0862-L/AL	SF0863-L/AL	SF0865-L/AL	cover plate, left lateral or right medial
12	SF0860-R/AL	SF0861-R/AL	SF0862-R/AL	SF0863-R/AL	SF0865-R/AL	cover plate, left medial or right lateral
6, 8-9, 12-16	SF8970-L/AL	SF8971-L/AL	SF8972-L/AL	SF8973-L/AL	SF8975-L/AL	functional unit plug + go modularity, left lateral or right medial
6, 8-9, 12-16	SF8970-R/AL	SF8971-R/AL	SF8972-R/AL	SF8973-R/AL	SF8975-R/AL	functional unit plug + go modularity, left medial or right lateral

15.15 Spare Parts for the **NEURO VARIO-SWING** System Ankle Joint

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
5	SH0460-L/AL	SH0461-L/AL	SH0462-L/AL	SH0463-L/AL	SH0465-L/AL	cover plate, left lateral or right medial
5	SH0460-R/AL	SH0461-R/AL	SH0462-R/AL	SH0463-R/AL	SH0465-R/AL	cover plate, left medial or right lateral
5-9	SH4970-L/AL	SH4971-L/AL	SH4972-L/AL	SH4973-L/AL	SH4975-L/AL	functional unit plug + go modularity, left lateral or right medial
5-9	SH4970-R/AL	SH4971-R/AL	SH4972-R/AL	SH4973-R/AL	SH4975-R/AL	functional unit plug + go modularity, left medial or right lateral

15.16 Spare Parts for the NEURO SWING–CLASSIC System Ankle Joint

The assignment of the items as shown in the exploded view drawing of the NEURO VARIO–SWING system ankle joint serves as guidance. The spare parts of the NEURO SWING–CLASSIC system ankle joint are not identical to the picture.

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
5	SH0160-2L/AL	SH0161-2L/AL	SH0162-2L/AL	SH0163-2L/AL	SH0155-2L/AL	cover plate, left lateral or right medial
5	SH0160-2R/AL	SH0161-2R/AL	SH0162-2R/AL	SH0163-2R/AL	SH0155-2R/AL	cover plate, left medial or right lateral

15.17 Spare Parts for the NEURO SWING System Ankle Joint

The assignment of the items as shown in the exploded view drawing of the NEURO VARIO–SWING system ankle joint serves as guidance. The spare parts of the NEURO SWING system ankle joint are not identical to the picture.

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
5	SF0560-2/AL	SF0561-2/AL	SF0562-2/AL	SF0563-2/AL	SF0555-2/AL	cover plate
5, 7-9	SF5970-AL	SF5971-AL	SF5972-AL	SF5973-AL	SF5975-AL	functional unit plug + go modularity

15.18 Spare Parts for the NEURO SWING 2 System Ankle Joint

Item	Article Number for System Width					Description
	10mm	12mm	14mm	16mm	20mm	
17	SH0560-AL	SH0561-AL	SH0562-AL	SH0563-AL	SH0565-AL	cover plate
18	FE1615-01	FE1611-01	FE1916-01	FE1027-01	FE1027-01	coil spring
19	GS0604-350	GS0705-525	GS1007-350	GS1108-500	GS1108-500	sliding bushing
20	PN0003-L02	PN0004-L02	-	-	-	stop damper
20	-	-	VE3771-010/20	VE3771-012/26	VE3771-012/26	O-ring damper
21	SH0490-01	SH0491-01	SH0492-01	SH0493-01	SH0493-01	plunger
7-9, 17-21	SH5970-AL	SH5971-AL	SH5972-AL	SH5973-AL	SH5975-AL	functional unit plug + go modularity

16. Disposal

Dispose of the system joint and its individual parts properly. The product must not be disposed of with the residual waste (fig. 43). Please comply with the applicable national laws and local regulations for the proper recycling of recyclable materials.

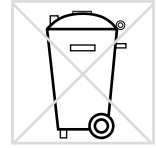


Fig. 43



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

17. Signs and Symbols



CE labelling according to Regulation (EU) 2017/745 for medical devices



medical device



article number



manufacturer



batch code



follow the instructions for use



single patient – multiple uses



Unique Device Identifier – product identification number

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 according to the configuration result from 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 serves as guidelines. Subject to technical modifications.

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20. Information for the Treatment Documentation

Add these instructions for use to your treatment documentation!

Patient Data

Name	
Address	
Postcode, City	
Home Telephone	
Telephone at Work	
Insurance	
Insurance No.	
Attending Physician	
Diagnosis	

21. Handing Over the Orthosis

The orthotist or qualified/trained expert has also handed over the instructions for use for patients as well as the orthosis service passport to you as a patient, parent or care team. By means of these instructions for use, the functions and handling of the orthosis were explained to you in detail. You will find the next maintenance appointment in the orthosis service passport. Bring the orthosis service passport with you to every maintenance appointment.



Place, Date

Signature Patient

Leg Side

left

right

Mounted Sliding Washer

1. GS _____ - _____

2. GS _____ - _____

