

Service manual - English.



Sherpa 3

REF



1700055X	200 kg
1700056X	200 kg
1700057X	200 kg
1700058X	400 kg
1700059X MW	200 kg
1700060X MW	400 kg
1700061X MW	200kg

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MD

CE UK
CA

Introduction

This maintenance book describes how to maintain the device, what to inspect and parts that are available for repairs. Maintenance must always be done carefully and must be done in accordance with the applicable standards and the supplier's instructions.

They help, support and oblige things that are necessary to ensure safety.

This book is not intended for third parties and unauthorized persons.

Begrippen

To maintain aids, it is good to know the following concepts.

Requirements

The lift is made according to the guidelines described in the MDR. United Care, which is part of the DHG group, works according to the quality management ISO13485.

The lifts must be maintained and inspected according to the manufacturer's NEN10535 and (preventive) maintenance schedule.

Owner of the device

The owner is the person who purchased the lift. The owner of the lift is responsible for having inspections carried out and preventive maintenance. He is also the one who determines whether a repair should be carried out or not.

United Care offers the possibility to take care of inspections, maintenance and planning.

Inspection and maintenance

Inspection and maintenance are two separate parts. Maintenance can be a result of an inspection, but it does not have to be. The lifts must be inspected once a year.

Maintenance should be performed according to the manufacturer's NEN10535 and preventive maintenance schedule.

During an inspection, you check whether the lift, in the condition it is at that time, can be used without any problems in the coming year.

Rejection

An lift that is rejected must be clearly marked with a RED rejection sticker, provided with a name and date.

If the lift is unsafe, it must be taken out of operation!

The owner must then be informed.

Manuals

In addition to the user manual, the maintenance / service manual has been created the user manual is written for the user of the lift. The service manual is written as a manual for maintenance, service and inspections.

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1 Attention points

PLEASE READ THIS MANUAL BEFORE REPAIRING OR SERVICING THE PRODUCT.

Failure to comply with the following cautions and the further descriptions in this manual may result in dangerous situations.

Contraindications

- The appliance should not be used to lift a weight in excess of that indicated on the appliance, the appliance label and this user manual.
- The device is designed to lift and move patients/patients in conjunction with a suitable sling and as such should only be used for this purpose. Any other purpose is not allowed.

Precautionary measures

- Handle the device with care and ensure a clean, tidy working environment.
- Check the condition and functions of the device regularly.
- The device should be inspected periodically at least once a year.
- Service and maintenance of the device is only permitted by trained persons. The life of the device may be shortened by improper maintenance.
- Replacement of the spreader bar or other structural parts of the device is only permitted by persons trained for this purpose.
- Charging the battery should always be done in a well-ventilated, dry area.
- Chargers must be connected according to the installation manual and must be checked periodically at least once a year.
- Always report device defects to the supplier.
- If the maximum load differs between lift, sling bar and sling, the lowest maximum load should always be used.

Warnings

- Use the device only with approved accessories. (Always contact United Care if you want to use a different type).
- For service and repair, use only original parts supplied by United Care.
- If the device is unsafe, it must be deactivated!
- A lift that is rejected must be clearly marked with a RED rejection sticker, with a name and date.
- The device must not be modified or modified in any way.
- Do not use the device if any of the cables show signs of wear or damage.
- The appliance must not be left or stored in a damp or wet environment.
- The appliance must not be cleaned with steam.
- The device may only be used indoors.
- No maintenance should be performed while the device is in use or charging.
- When the protective caps are removed, think about your fingers, hands and other limbs. Keeps them away from moving, sharp parts and batteries.
- Motors are intended solely for the movement they make and should not be used as a support, handle or push/pull rod.
- Do not use the hand control, hand control cord, and sling bar cord as a tow cord to move the patient/patient (red arrow). This may damage the wiring.

2 Symbols

The following pictograms may appear on the lift, on the labels or in this handbook. Below is what they mean.

	The product meets all legal requirements for products sold within the European Union		Intended for indoor use only
	Medical device		Class II electrical equipment
	General Warning		Maximum tolerable weight/load of the patient.
	Legal Manufacturer		Indicates the total maximum weight of the device and the patient.
	Type BF applied parts. Indicates that components have prolonged contact with the patient/user.		Refer to the instruction manual
	WEEE-symbol Do not dispose of with household waste.		Storage and transport conditions Pressure range: 50kPa - 110kPa
	Usage Cycle: 2 min in active (ON) mode 18 min in idle position (OFF)		Storage and transport conditions Humidity Range: 10% - 85%
	Read the manual		Storage and transport conditions Temperature range: 5°C - 50°C
	Reference number		Keep dry
	Serial number	IPX4	Resistance to environmental elements. IPX4 - Protects against splash water up to 60°.
	Product meets all legal requirements for products sold within Great Britain.		

3 Serial number

When you contact United Care, make sure you always have the serial numbers of the lift.
Below you can see what you can read on the serial number sticker.



SN	The serial number of the lift
REF	The article number of the lift
(01)	Device identification number, GTIN
(11)	Production date, JJMMDD
(21)	Serial number: The first 2 digits are the year; the last 5 digits is a sequential number.
Max load	Maximum lifting weight
Tot. weight	The total weight with lift and max. lifting weight
QR code	To scan the serial number.

Existing models

Article nr	Product
17000550	Sherpa 3, Without spreader bar
17000551	Sherpa 3, Two-point spreader bar
17000552	Sherpa 3, X-shaped spreader bar
17000553	Sherpa 3, Four-point balance spreader bar
17000554	Sherpa 3, Four-point electric spreader bar
17000555	Sherpa 3, Four-point electric child spreader bar
17000560	Sherpa 3, Drive, Without spreader bar
17000561	Sherpa 3, Drive, Two-point spreader bar
17000562	Sherpa 3, Drive, X-shaped spreader bar
17000563	Sherpa 3, Drive, Four-point balance spreader bar
17000564	Sherpa 3, Drive, Four-point electric spreader bar
17000565	Sherpa 3, Drive, Four-point electric children's spreader bar
17000570	Sherpa 3, Quick Release, Without spreader bar
17000571	Sherpa 3, Quick Release, Two-point spreader bar
17000572	Sherpa 3, Quick Release, X-shaped spreader bar
17000573	Sherpa 3, Quick Release, Four-point balance spreader bar
17000574	Sherpa 3, Quick Release, Four-point electric spreader bar
17000575	Sherpa 3, Quick Release, Four-point electric child spreader bar
17000580	Sherpa 3, 400 kg, Without spreader bar
17000582	Sherpa 3, 400 kg, X-shaped spreader bar
17000584	Sherpa 3, 400 kg, Electric bariatric spreader bar
17000590	Sherpa 3, Drive, MilkyWay, Without spreader bar
17000591	Sherpa 3, Drive, MilkyWay, Two-point spreader bar
17000592	Sherpa 3, Drive, MilkyWay, X-shaped spreader bar
17000593	Sherpa 3, Drive, MilkyWay, Four-point balance spreader bar
17000594	Sherpa 3, Drive, MilkyWay, Four-point electric spreader bar
17000595	Sherpa 3, Drive, MilkyWay, Four-point electric children's spreader bar
17000600	Sherpa 3, 400 kg, MilkyWay, Without spreader bar
17000602	Sherpa 3, 400 kg, MilkyWay, X-shaped spreader bar

17000604	Sherpa 3, 400 kg, MilkyWay, Electric bariatric spreader bar
17000610	Sherpa 3, Quick Release, MilkyWay, Without spreader bar
17000611	Sherpa 3, Quick Release, MilkyWay, Two-point spreader bar
17000612	Sherpa 3, Quick Release, MilkyWay, X-shaped spreader bar
17000613	Sherpa 3, Quick Release, MilkyWay, Four-point balance spreader bar
17000614	Sherpa 3, Quick Release, MilkyWay, Four-point electric spreader bar
17000615	Sherpa 3, Quick Release, MilkyWay, Four-point electric children's spreader bar

4 Sherpa

4.1 What does a Sherpa do

The Sherpa is a ceiling lift intended to provide a passive transfer for people in need of care. The person in need of care is placed in a sling that is attached to a spreader bar which is then attached to the lifting sling that is unwound and unwound in the Sherpa.

The Sherpa hangs in a rail that is attached to the ceiling. The transfer can then be provided in line with the rail.



4.2 What are the movements.

The Sherpa's sling revolves around a coil that is driven by a 24V motor. The spreader bar hangs at the end of the sling and goes up and down with the sling.

At the end of the webbing, microswitches are used to stop the lifting webbing and thus prevent incorrect rolling. The Sherpa contains two batteries that are charged at a charging station. The energy generated by lowering a load is also recovered back to the batteries. Partly because of this, the Sherpa is very energy efficient.

At the bottom of the Sherpa is a connection for connecting an electrically adjustable spreader bar to electrically get into a sitting or lying position.

The Sherpa can also be made electrically mobile. Then there are gears on the wheels and a travel motor in the Sherpa.

4.3 How are these parts controlled.

These parts are controlled by one control board. On this you can read a number of things for service. There are all kinds of letters on the screen. Each letter represents a function. Every function you operate changes the lowercase letter to a large letter or vice versa. This way you can fairly easily check whether a manual control is broken or a microswitch or motor.

At the bottom is an emergency stop and emergency control. Pull the emergency stop cord once and the lift will turn off. If you hold the cord, the lift will drop. This is for emergencies. In extreme emergency, if this no longer works either, you can turn the lift down by turning the motor with an Allen key.

There is a hand control on the lift with which you operate the lift.

4.4 What to consider when it comes to maintenance.

Lifting strap

The lifting strap of a ceiling lift should be carefully checked every year. If there is minor damage or a fraying etc. on the lifting strap, it must be rejected and replaced. The lifting strap must be replaced every 5 years.

Batteries

Due to the use of these new batteries (LiFePO₄), it is no longer necessary to learn the PCB. The batteries are much more environmentally friendly than the Pb batteries. They can no longer ignite and can be discharged 100% without harming the batteries.

It is recommended to replace the batteries every 5 to 6 years. This prevents problems.

Charging contacts (trailing contacts)

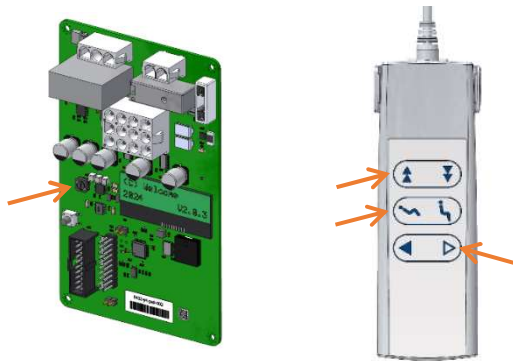
It is recommended to clean the contact springs and sliding contacts during a maintenance job. It is little work and ensures good contact with the charger. Always check and clean the contacts from the interface of XY system or Gates.

Spreader bar strap

The front clip hook (double clip hook - legs - 22300210) must be thoroughly checked every year for any wear and damage. A small fraying is rejected and must then be replaced. The clip hook (incl. strap) should be replaced every 5 years.

4.5 Reset the red light.

Press the print button. Service menu is in the screen. Press the following buttons of the hand control at the same time: top left + middle left + bottom right. The service light goes out. Press the print button again. Ready

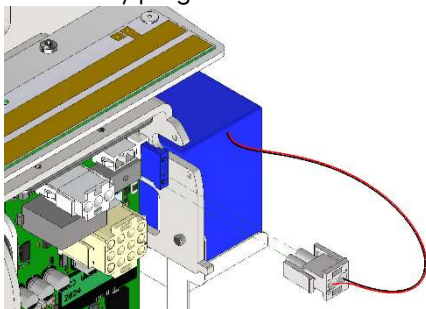


4.6 Shipping and rehoming a Sherpa 3

For use of Sherpa 3 that has just arrived or for sending a Sherpa 3, it is wise to disconnect the battery. This prevents the battery from slowly draining.

Here's how to do it:

- Remove the cover caps from the Sherpa.
- Reconnect the battery plug in case of incoming Sherpa, and in case of sending disconnect the battery plug as shown below.



4.7 Which parts need to be replaced periodically.

- The lifting strap in the cassette must be **replaced every 5 years**. When the lifting sling is in poor condition, of course, it is more likely to!
- It is recommended to replace the batteries of the lift **every 5 years**. This prevents problems and possible downtime.
- The double clip hook with the strap should be replaced **every 5 years**. A label is sewn onto the strap under the foam rubber cover on which you can read when the strap is placed.
- Slings also need to be replaced every **2 to 3 years** (depending on the supplier). Fabric deteriorates and thins over time with use, but also with washing and certainly with incorrect washing. To avoid problems, they should be washed and dried according to the supplier's specifications. Replace the sling in time to avoid problems.
- Furthermore, there are no parts that need to be replaced periodically.

5 Troubleshooting

If the repair chart below does not resolve the complaint or if in doubt, do not use the sling and contact United Care.

Complaint	Possible cause	Action
Sherpa does not work	Emergency stop activated	Push up on emergency stop
	Hand control is loose or broken	Connect or replace the hand control.
	The battery is empty	Charge the battery
Spreader bar does not work.	Emergency stop activated	Druk op noodstopcassette
	Hand control is loose or broken	Reconnect or replace the hand control.
	Spreader bar cable is loose or broken	Reconnect the cable or replace it.
	Damage to the spreader bar clutch cable	Replace the spreader bar coupling or check the condition of the carbon brushes.
	Spreader bar motor broken.	Replace the Spreader bar motor.
Sherpa does not drive	Emergency stop pressed	Press emergency stop cassette
	Hand control is loose or broken	Connect or replace the hand control.
	Riding motor broken	Replace the motor.
The lift creaks	Dry running of the bearings.	Use slightly penetrating oil.
	Motor rattles.	Replace motor.
Sherpa does not charge	Contact surfaces and springs dirt	Cleaning with contact spray
	LED is not lit on the charger.	Charger not plugged in or broken.
	Contact point is broken	Replace contact station
	Cassette does not touch the charging socket	Move the charging station
	Interruption in cabling.	Check the cables and reconnect the plugs.
Sherpa has little power	Low battery	Charge battery
	Battery bad	New battery
	Motor bad	Replace motor
Battery drains quickly	Bad battery	Replace battery
Battery empty, light keeps flashing	New Sherpa or new batteries installed. Teach-in PCB	Do not put the cassette on the charger for a whole day but use it. After that, fully charge the batteries.
Gate	Gate does nothing at all	Check power supply and interfaces
	Gate does not connect (it beeps)	Removing Gates from each other
	Gate does not stop on micros but on max current.	Adjust het Gate-clamp or micro's.
	Cassette between Gates	Manually opening the gate with a magnet
Carrousel	Carousel does nothing	Check power supply
	Carousel turns difficult	Check the fixing ceiling
	Carousel does not stop in time	Checking / adjusting micros

6 Maintenance

6.1 Daily maintenance

The following actions can be performed by healthcare providers on a daily basis.

- Check that all parts of the lift are present.
- Check if the battery is charged enough.
- Check the sling before use to make sure it is clean and for any damage.

6.2 Weekly Maintenance

The following actions can be performed by caregivers on a weekly basis.

- It is recommended to clean the cassette and sling bar weekly. It is best to clean these with a normal household cleaner and a well-squeezed damp cloth.
- Check the operation of the lift and the operation of the emergency stop.
- Check that all movable parts move easily, without disturbing noise.
- Inspect and wash/clean the sling according to the manufacturer's instructions.

6.3 Semi-annual maintenance

The list below gives an overview of the maintenance that the technical service can carry out on the Sherpa every six months.

- Checking for any damage.
- Check the cabling for visible damage.
- Check that the Sherpa runs properly through the rails.
- Check the Sherpa for smooth movement and turning.
- Check the operation of the emergency stop.
- Check the operation of the emergency down function.
- Check the condition of the lifting strap.
- Check the condition of the clip hook with strap.
- Clean the charger contact springs and the contact surfaces on top of the cassette with a contact cleaner (without lubricant).
- Put the Sherpa on the charger and charge it until the yellow light goes out.
- Check that visible bolts are tight.
- Check the rail system for damage or deformations.
- Check the rail and ceiling mount.
- Clean the rail with a washing-up liquid and a squeezed damp cloth.
- Clean the wheel surface on the inside of the rail.
- Check that the limit stops are tight.
- The sling(s) is/are safe to use after inspection according to the manufacturer's instructions.
- Check the readability of the serial number label, the presence of a manual, quick reference card and logbook.

If the lift does not meet any of the above points, the lift must be taken out of service and the technical service or United Care must be contacted.

7 Inspection

7.1 Annual inspection list

The lift must be inspected annually for the following points.

General

- Hygiene
- Condition of the plastic parts.
- Damage and defects.
- Serial number sticker readable.
- Max. kg visibly stated.
- Service Control sticker.
- Construction original.
- Test all functions.

Cassette outside

- Covers well attached.
- Wear and tear of wheels.
- Rolling through the rail.
- Rail treads.
- Lifting sling.
- Hand control.
- Spreader bar cord.
- Contact strips.
- Lampen control.
- Sling bar attachment.

Cassette inside

- Rust.
- Clearance of moving parts.
- Wear and tear on parts.
- Lifting strap attachment.
- Strap - spool - gear connection.
- Limit switch operation.

Electric

- Emergency Stop / Cord.
- Emergency Control.
- Motor condition.
- Sling limit switches.
- Roll up limit switches incorrectly.
- Wiring.
- Accumulators / Batteries.
- Acculader.

7.2 System checks

Rail

- Rail condition.
- Rail spirit level.
- Ceiling/wall mounting.
- Rail connection.
- End stops tightly.
- Braces fixed.

Gate/Carrousel (G/C)

- Rust / damage.
- Movement / action.
- Mounting on rail.
- Mounting on ceiling.
- Limit switches.
- Contact strips.
- Rail alignment.
- Slack movable parts.

Spreader bar

- Type of spreader bar / colour.
- Readability of labels/stickers.
- Protective rubbers.
- Protective caps.
- Clip hooks.
- Welded spreader bar beam green spreader bar.
- Chain/steel cable yellow spreader bar.

Final inspection

- Load test 100% load.
- Sticking an inspection sticker with date.

Recommended accompanying documentation.

- Manual.
- Quick Reference card.

Sling

Always check the sling that belongs/lies with the lift. This is not covered by the inspection of the cassette. Still visually inspect the accompanying sling. If in doubt about the condition, take it out of service and consult the manual. Contact the supplier to assess it or have it replaced.

8 Repair description

8.1 Checkpoints after repair.

After maintenance or repair, check the following points:

Check the lifting sling end of exit is working properly.

- End stop up.
- End stop down.
- Strap slack stop.

Check the emergency stop switch and control strip moves easily.

Always fully load the sling once after repairs.

Check that the end stops are in the rail.

Cleaning the pickup shoe surfaces on the cassette, interface, and chargers.

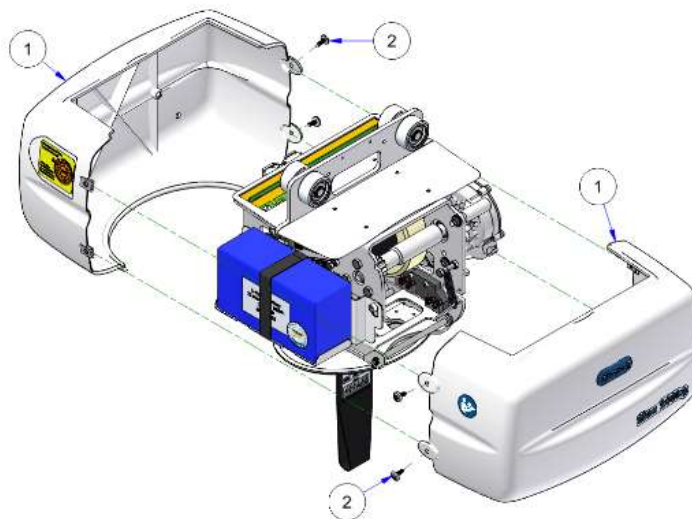
If any maintenance or repairs have been carried out on the gate or carousel, please check the following points:

- Check that all parts rotate and move smoothly.
- Check the operation of the micro limit switches.
- Check the operation of the protections.
- Cleaning the contact surfaces.

Before performing any repairs or maintenance, press the emergency button, remove the covers, and remove the batteries or battery connector.

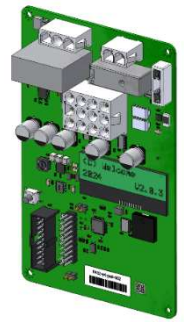
8.2 Disassembling the Covers

The covers (position 1) of the Sherpa 3 must be disassembled for inspection, maintenance, or repair. By unscrewing the two screws (Torx20) on the side of the cassette (pos. 2), the caps can be removed from each other. Remove both caps at the same time to prevent the caps from falling.



8.3 PCB readout

When the Sherpa's covers are removed, the printed circuit board (PCB) is visible. On this PCB there is a screen with information that corresponds to the operating function of the cassette. Each letter represents a function. When you operate this function, the letter of the function changes to an uppercase letter (or to a lowercase letter). For example, in the event of a malfunction, you can check whether the operation reaches the circuit board or not.



The meaning of the letters is as follows:

h (H)	Up	Hand Control
d (D)	Down	Hand Control
v (V)	Drive forward	Hand Control
a (A)	Drive backwards	Hand Control
z (Z)	Seated position, spreader bar	Hand Control
l (L)	Reclining position, spreader bar	Hand Control
E (e)	First strap end stop	(micro switch with yellow cable)
T (t)	Second strap end stop	(micro switch with orange cable)
b (B)	Strap slack	(micro switch with green cable)



The voltage of the batteries is also indicated on the right side of the screen. On the bottom line, you can see a live current value of the H/L motor and the spreaderbar motor. In addition, you can read the battery capacity:

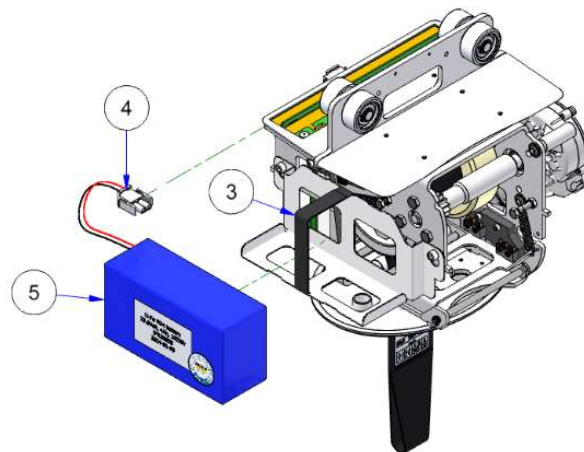
- 100% is a full battery.
- 50% is a half-full battery.
- 20% of the orange LED flashes (charging required).
- <10% of the lift can only lower the weight.

8.4 Battery replacement

It is recommended to replace the battery every 5 years to avoid problems. Battery replacement should only be carried out by authorized persons. Only use a battery provided by United Care. The battery can be replaced by following the steps below:

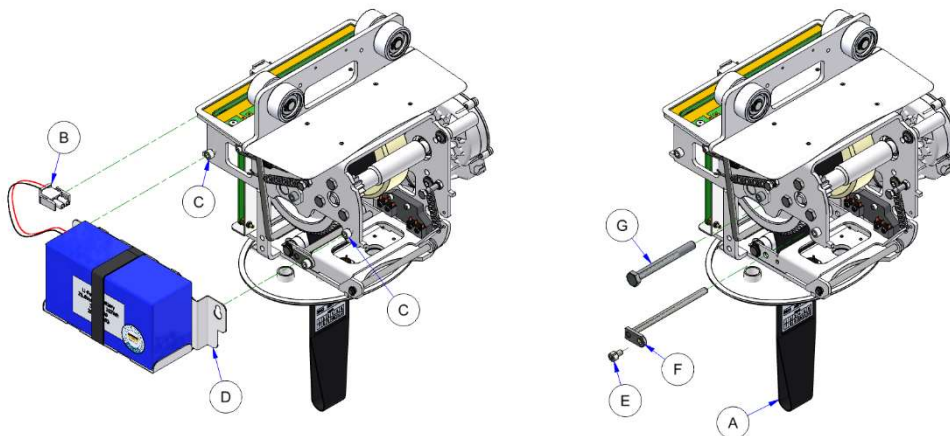
1. Turn off the cassette with the emergency cord.
2. Remove the covers from the cassette (see §8.1)
3. Disconnect the battery connector (image below, pos. 4) from the circuit board.
4. Remove the Velcro strip (figure below, pos3) from the battery.
5. Remove the battery from the battery holder (image below, Pos. 5).
6. Insert the new battery with the cable on the left side.
7. Secure the batteries with the Velcro strip.
8. Connect the connector to the circuit board.
9. Turn on the cassette by pressing the emergency stop. The cassette will turn back on immediately.
10. If not, check the connection of the battery, check the fuse on the circuit board.
11. Replace the covers on the cassette. Make sure that the hole used for the emergency descent is aligned with the motor.

Always disconnect the power source during a repair. This prevents short circuits or uncontrolled movements. Also, move the cassette away from the charging point.



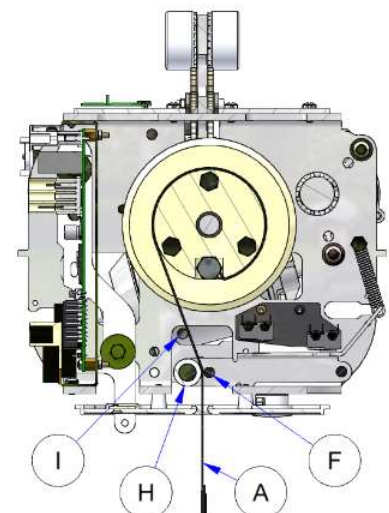
8.5 Strap replacement

1. Remove the spreader bar from the sling.
2. Remove the covers from the cassette (see § 8.1).
3. Lower the lifting sling (A) all the way down until the lifting sling is fully unwound. The mounting bolt (G) is now located on the bottom.
4. Turn off the cassette by pulling on the emergency cord.
5. Remove the connector (B) of the battery from the circuit board.
6. Remove the battery with bracket by loosening the bolts (C).
7. Remove the bolt (E) from the lifting strap guide and pull out the stop bar (F).
8. Disassemble the bolt from the sling coil (G) and remove the strap.
9. Insert the new lifting strap through the cover and the lifting strap guide and attach it to the spool with the bolt (G).



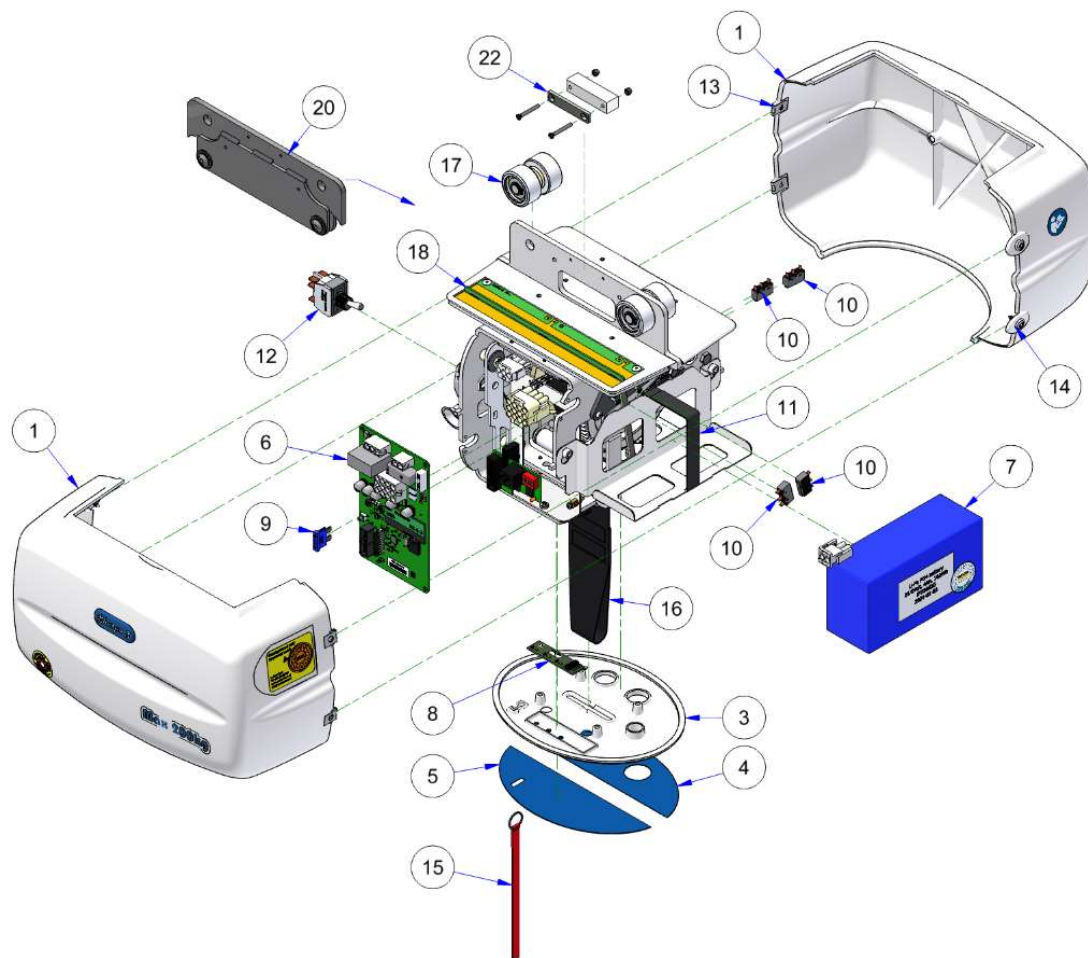
Remember that the strap is placed on the right side of the slack bar of the sling (I). In case of incorrect assembly, the lift strap will not go down.

1. Replace the stop bar (F) in the lifting strap guide and tighten the bolt (E).
2. Always check that the band is between the roller (H) and the stop rod (F) and that the bolt is correctly fastened. This is essential.
3. Reassemble the battery on the frame and plug the connector into the circuit board.
4. Reassemble the battery onto the frame and insert the connector into the circuit board.
5. Turn the lift back on by pressing the emergency bar into the cassette.
6. Wind up and down the lifting strap and check all end stops.
7. Check that all bolts are properly tightened.
8. Replace the covers on the cassette.
9. Reassemble the spreader bar as intended.



9 Parts List

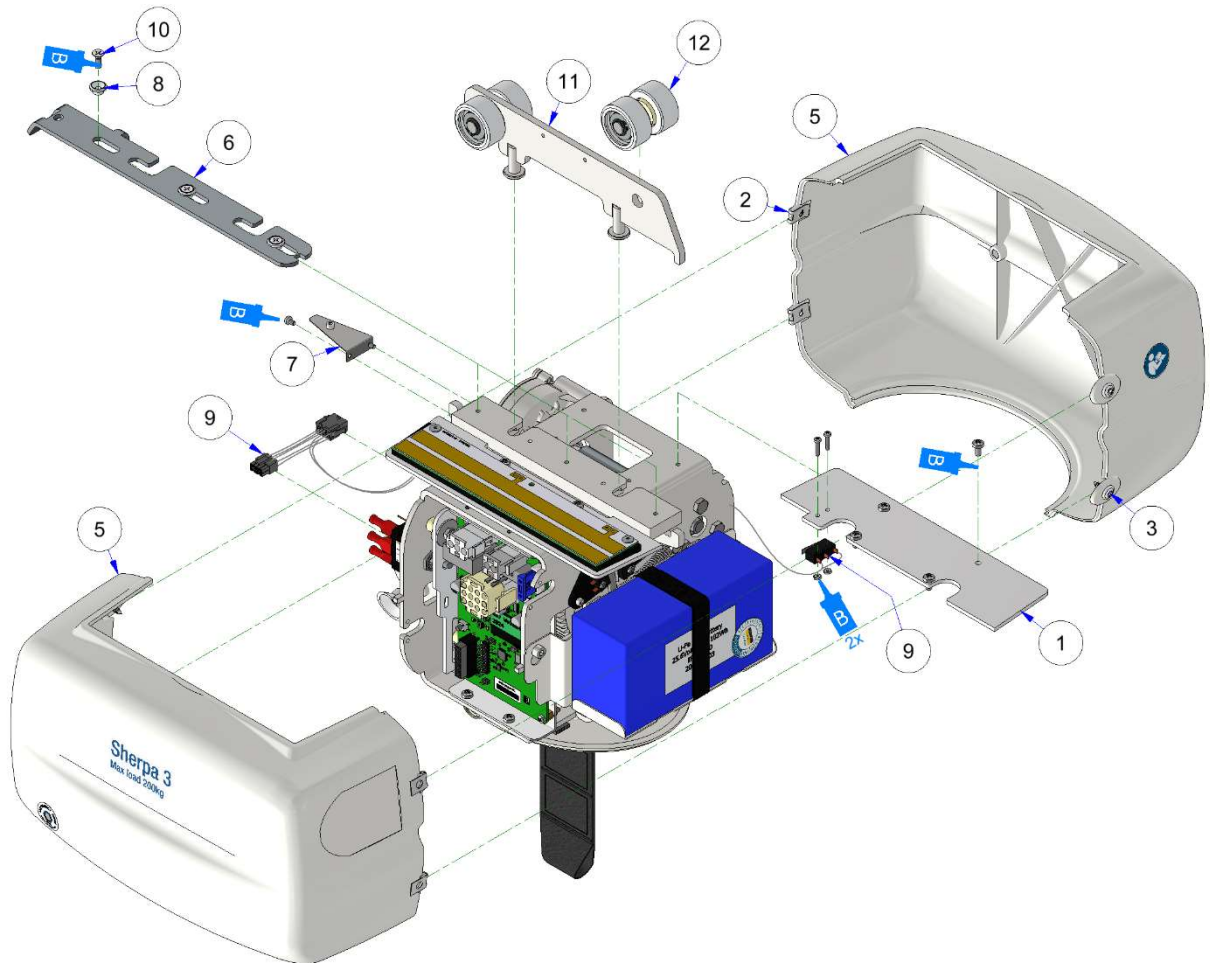
9.1 Parts List Sherpa 3



pos	part.nr.	name
1	17107190	Cover half
	17107192	Cover half with holes
3	17107200	Wieber cover
4	17108140	Wieber sticker led window
5	17108150	Wieber sticker with plug hole
	17108151	Wieber sticker without holes
6	17108070	Circuit board Sherpa 3
7	17108010	Battery LiFe-P04
8	17106100	Led print
9	32100121	Fuse 15A
10	10100290	Micro switch
11	17107930	Velcro strip 38cm

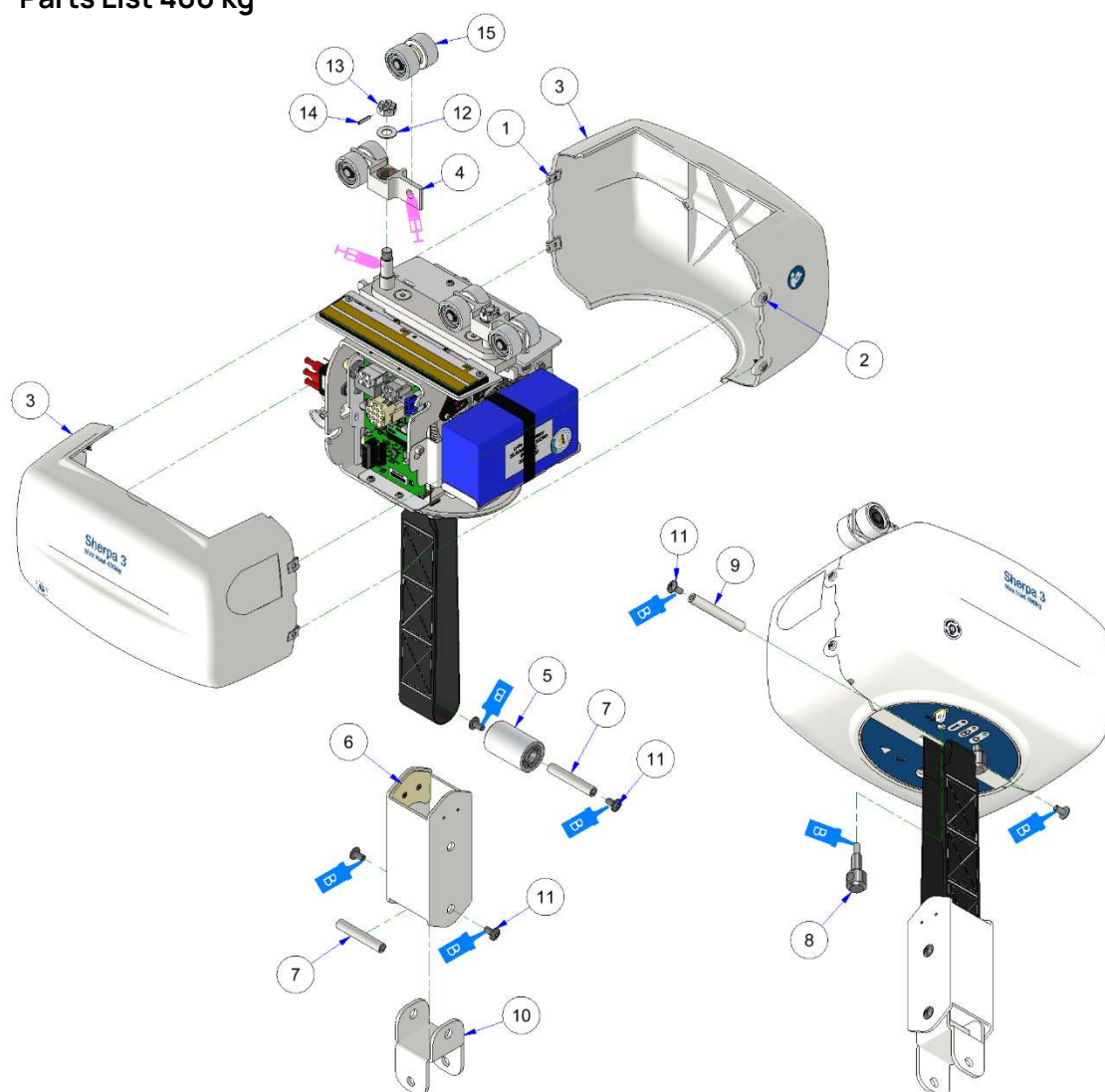
pos	part.nr.	name
12	17108080	Toggle switch
13	17107300	Plate nut 4mm
14	17107320	Metal screw 3,9x16 white
15	17106461	Pull cord
16	17106270	Strap (Sherpa 1, 2, 3)
17	17400950	Wheel set
18	17400753	Charge contact strip
19	-	-
20	17400270	Lowering set (4cm)
21	-	-
22	17400333	Magnet (Gate and Carrousel)

9.2 Parts List Quick-Release



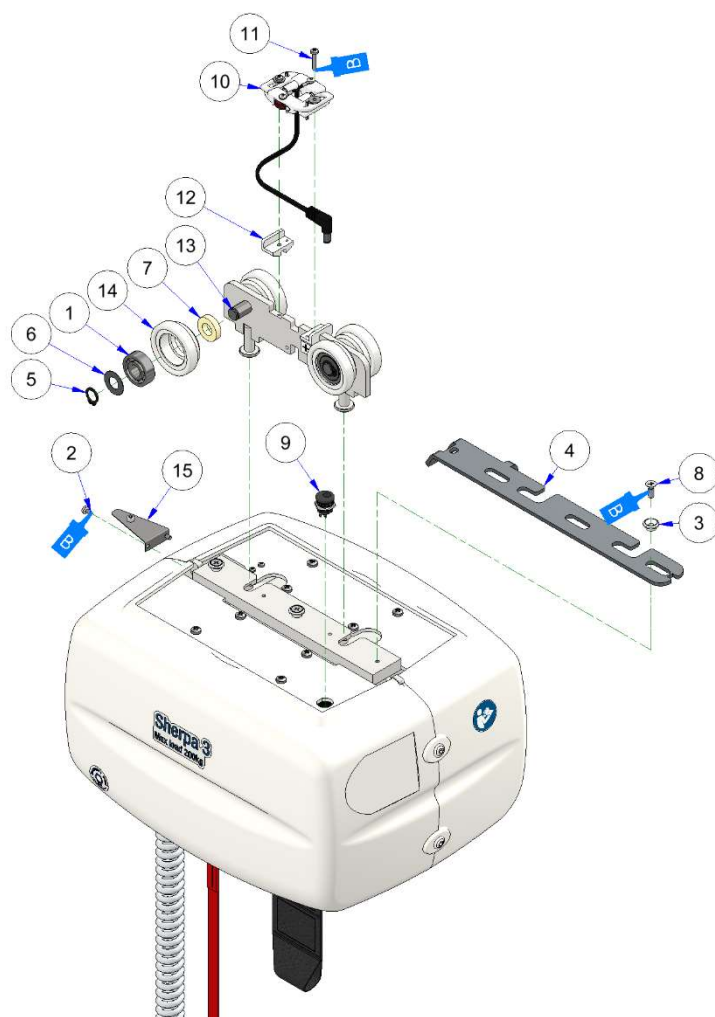
pos	part.nr.	name
1	17204000	Insulation plate
2	17107300	Plate nut 3,9mm
3	17107320	Metal screw 3,9x16 white
4	17300950	Frame 400kg, QR
5	17107190	Cover half
	17107192	Cover half with holes
6	17106570	Metal screw M3x5
7	11100890	Metal screw M4x8
8	17204010	Locking strip
9	17204020	Locking spring
10	17204030	Slide bush
11	17401412	Cable harness quick release
12	17104830	Metal screw M4x12
13	17400380	Trolley Quick-Release set
14	17400950	Wheel set (incl. wheel, axle, bush and bulk)

9.3 Parts List 400 kg



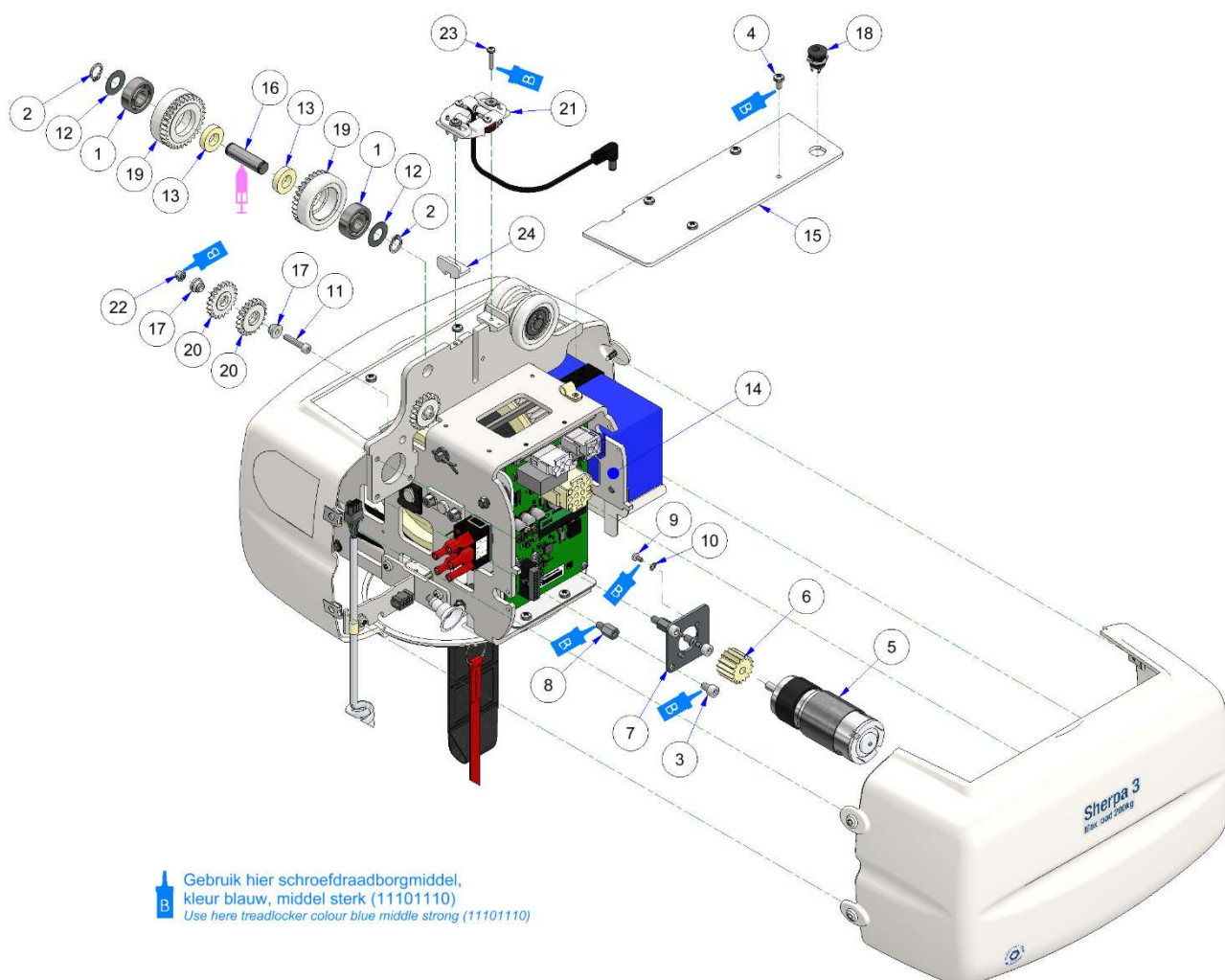
pos	art.nr.	naam
1	17107300	Plate nut 3.9 mm
2	17107320	Metal screw 3.9x16 white
3	17107190	Cover half
	17107192	Cover half with holes
4	17203420	Wheel frame
5	17203510	Strap roll
6	17203530	Strap guide
7	17203540	Roll axle
8	17203560	Strap coupling
9	17203580	Strap pin
10	17203590	Cardan
11	11101170	Low button head screw M6x12
12	11100580	Distance ring M10x1
13	17106790	Slotted nut low M10
14	11100620	Locking pin Ø3x16
15	17400950	Wheel set

9.4 Parts List MilkyWay Quick-Release



pos	part.nr.	name
1	17104540	Ball bearing Ø26xØ10x8
2	17106570	Metal screw M3x5
3	17204030	Slide bush
4	17204010	Locking strip
5	17104560	Retaining ring Ø10 black
6	11100581	Distance ring M10x0.3
7	17104551	Spacer Ø20xØ10x5
8	17104830	Metal screw M4x12
9	17401430	Cable harness charger MW
10	17108170	Charging set, in-rail/end point charging MW
11	17104752	Metal screw M3x16
12	17205060	Seat charging station MW
13	17205090	Axle Ø10x36 double groove MW
14	17205110	Wheel MW
15	17204020	Locking spring

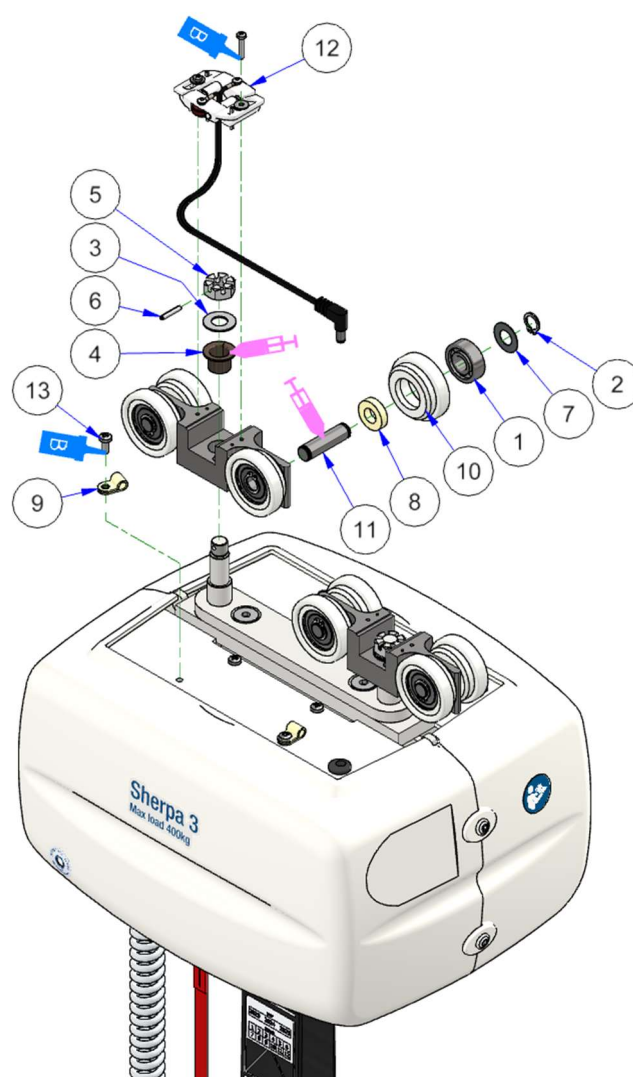
9.5 Parts List MilkyWay Drive



pos	part.nr.	name
1	17104540	Ball bearing Ø26xØ10x8
2	17104560	Retaining ring Ø10 black
3	17105530	Socket head scr. M5x8
4	11100890	Metal screw M4x8
5	17105090	Motor
6	17202350	Gearwheel
7	17202860	Motor mounting plate
8	17105070	Spacer M5x12
9	17104911	Metal screw M3x6
10	17105270	Tooth washer Ø3
11	12100330	Socket head scr. M4x20
12	11100581	Distance ring M10x0.3

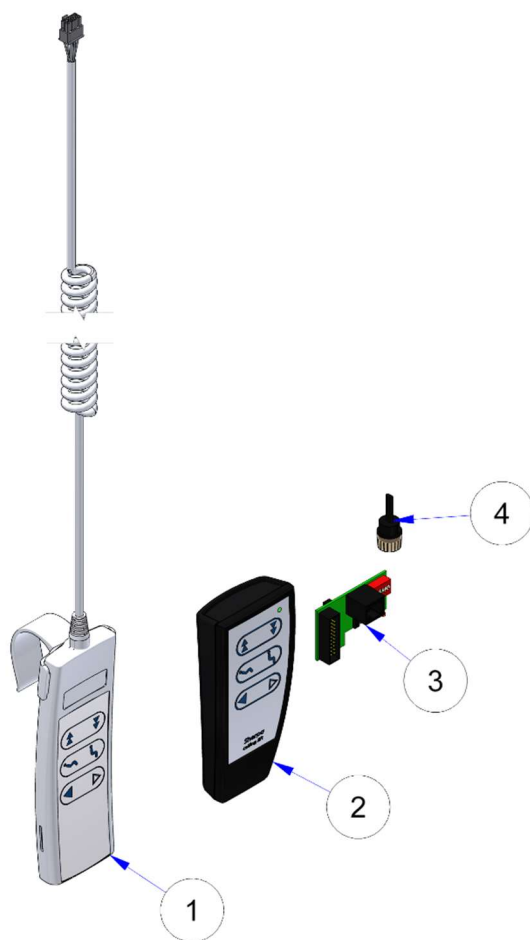
pos	part.nr.	name
13	17104551	Spacer Ø20xØ10x5
14	17300970	Frame MW
15	17205080	Insulation plate with ch. hole MW
16	17205090	Axle Ø10x36 double groove MW
17	17205100	Support bushing MW
18	17401430	Cable harness charger MW
19	17205120	Wheel with gear MW
20	17205130	Transmission gear MW
21	17108170	Charging station set, in-rail/end point charge MW
22	10100430	Lock nut M4
23	17104752	Metal screw M3x16
24	17205060	Seat charging station MW

9.6 Parts List MilkyWay 400 kg



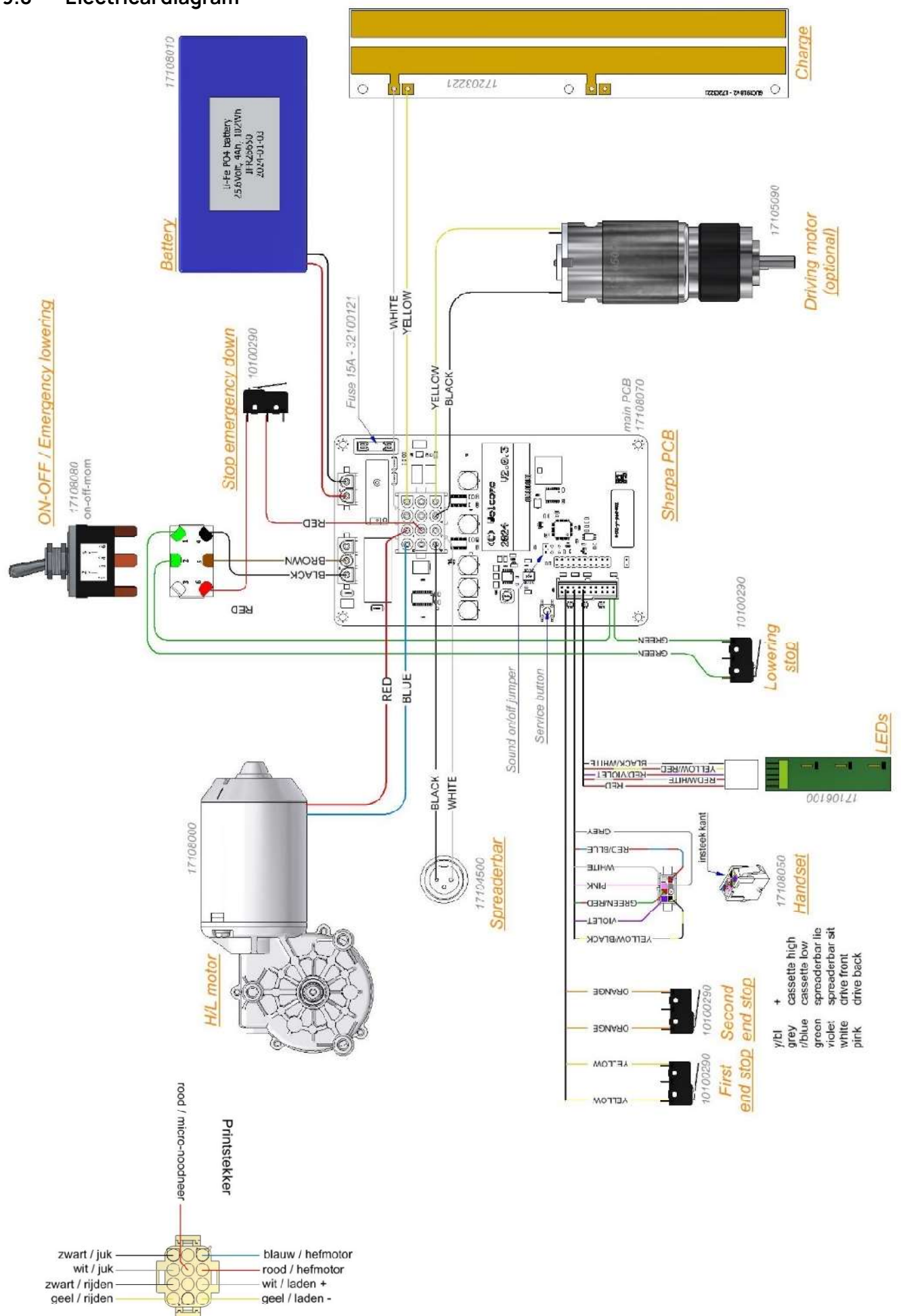
pos	part.nr.	name
1	17104540	Ball bearing Ø26xØ10x8
2	17104560	Retaining ring Ø10 black
3	11100580	Distance bush M10x1
4	10100600	Plain bearing Ø12xØ14x12, collar
5	17106790	Slotted nut low M10
6	11100620	Locking pin Ø3x16
7	11100581	Distance ring M10
8	17104551	Spacer Ø20xØ10x5
9	17108090	Cable clamp Ø5 nylon
10	17205110	Wheel MW
11	17205090	Axle Ø10x36 double groove MW
12	17108170	Charging station set, in-rail/end point charge MW
13	10100391	Metal screw M4x10

9.7 Parts hand controls

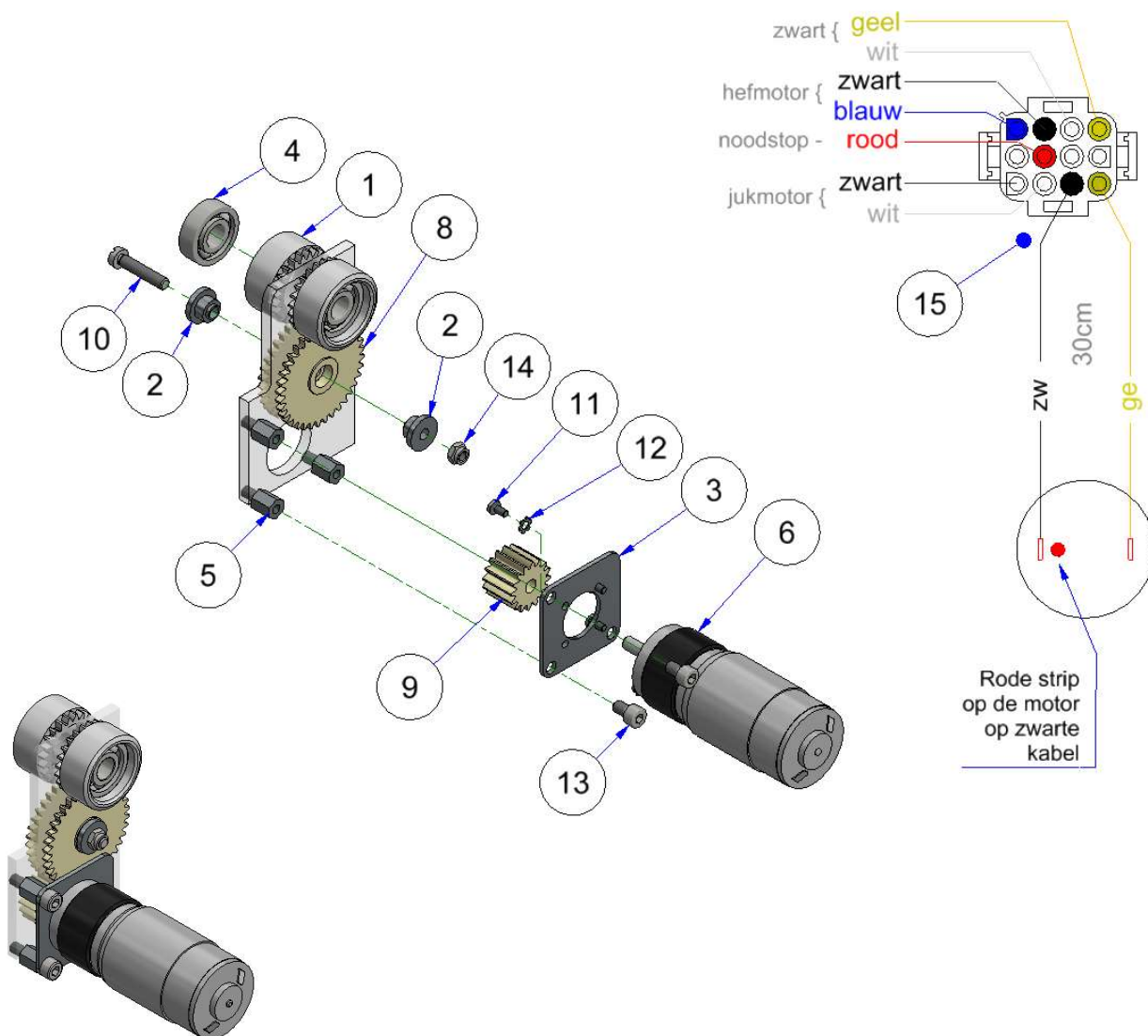


pos	part.nr.	name
1	17107980	Hand control Sherpa 3 (microfit)
2	17400890	IR Hand control
3	17106950	IR base circuit board
4	17107220	IR eye/receiver
	31100462	Block battery PP3 9V
	17400310	IR set – Hand control Sherpa 1, 2 and 3

9.8 Electrical diagram



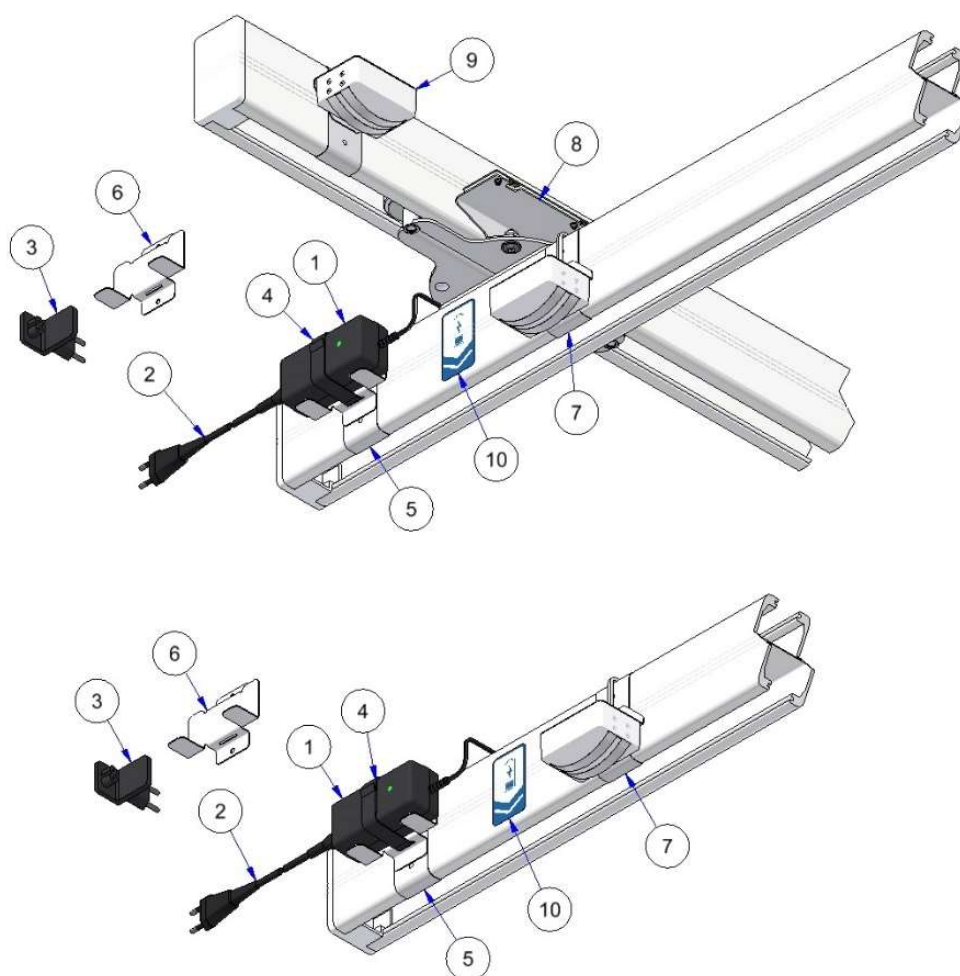
9.9 Parts List Drive



pos	part.nr.	name
1	17202310	Drive wheel Sherpa
2	17202360	Support bus
3	17202860	Motor mounting plate
4	17104540	Ball bearing Ø26xØ10x8
5	17105070	Spacer M5x12
6	17105090	Gear motor
7	17106520	Crimp pin 24-18

pos	part.nr.	name
8	17202340	Transmission wheel cassette
9	17202350	Gear wheel
10	17104700	Metal screw M5x25
11	17104910	Metal screw M3x6
12	17105270	Tooth washer M3
13	17105530	Socket head scr. M5x8
14	17105580	Lock nut M5

9.10 Charger Parts List



pos	part. nr.	name
1	17108020	Charger LiFe-P04
2	17107821	Power cord (EU)
	17107820	Power cord (UK)
3	17108021	Adapter power supply (EU)
	17108022	Adapter power supply (UK)
4	17107930	Velcro strip 38cm
5	17300930	Rail mounting bracket
6	17204930	Wall mounting bracket
7	17400202	Charge sensor (AMP)
8	17400224	Interface
9	17400211	Interface sensor
10	17106740	Sticker charging point

10 Gate system

10.1 What does a Gate do

The Gate is used to connect a movable rail (X-Y system) to a fixed rail on the ceiling, for example to go through a door.



10.2 What are the movements.

If you put the cassette against the triangle of the gate and the rails in line with each other, the gate connects automatically. The gate first locks all directions and finally the triangle at the bottom is slid away, creating space to slide the cassette through.

The Gate from United Care is a simple, fast, and very safe coupling.

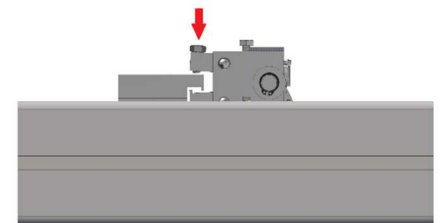
10.3 What to consider with maintenance.

Contact strips (power supply)

It is recommended to clean the contact springs and sliding contacts during a maintenance job. It is little work and ensures good contact with the charger.

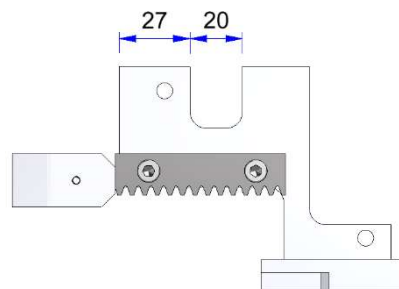
Clamping block (on top of the movable rail)

Adjusting the clamping block is done by loosening the set screw and then connecting the Gate and then screwing the set screw against the grip block by hand (loose). Reattach the set screw with the nut.



Sliding block update

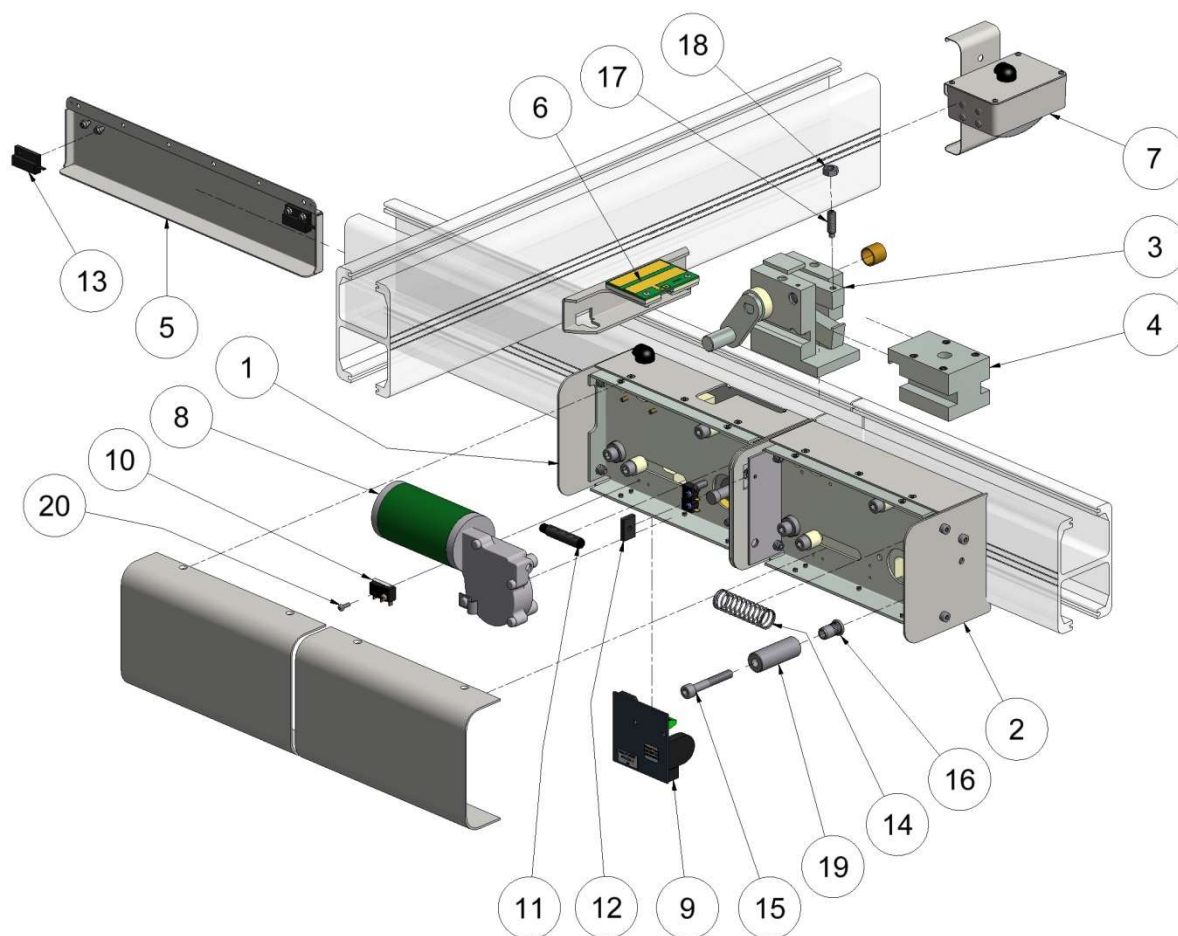
In the electric gate there is a sliding block with a slot of 20mm wide for moving the clamping block. This was previously 12mm wide. A 20mm slot ensures a better distribution of power of the movement and is therefore better. When a Gate malfunctions, this is part to replace.



10.4 The parts that need to be replaced periodically.

There are no parts that need to be replaced periodically.

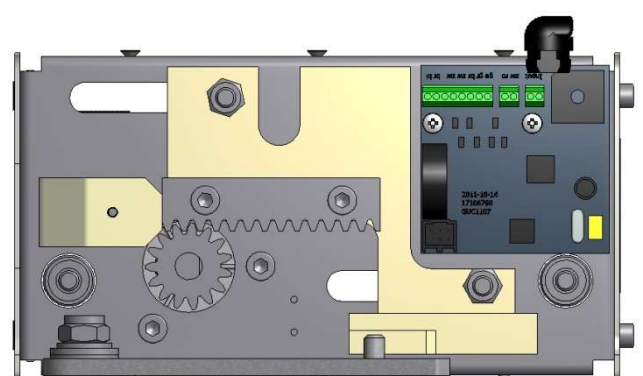
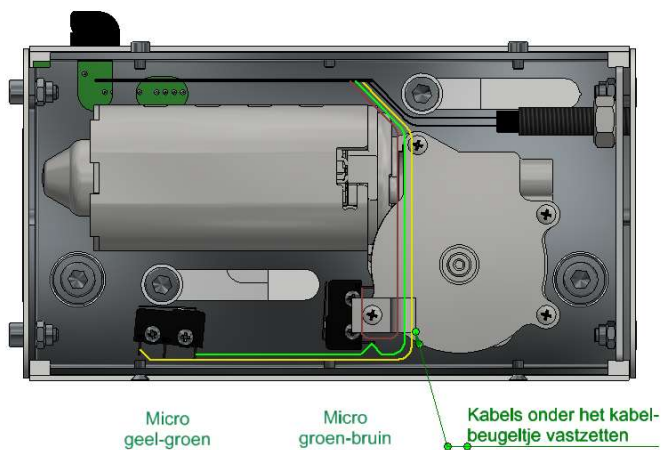
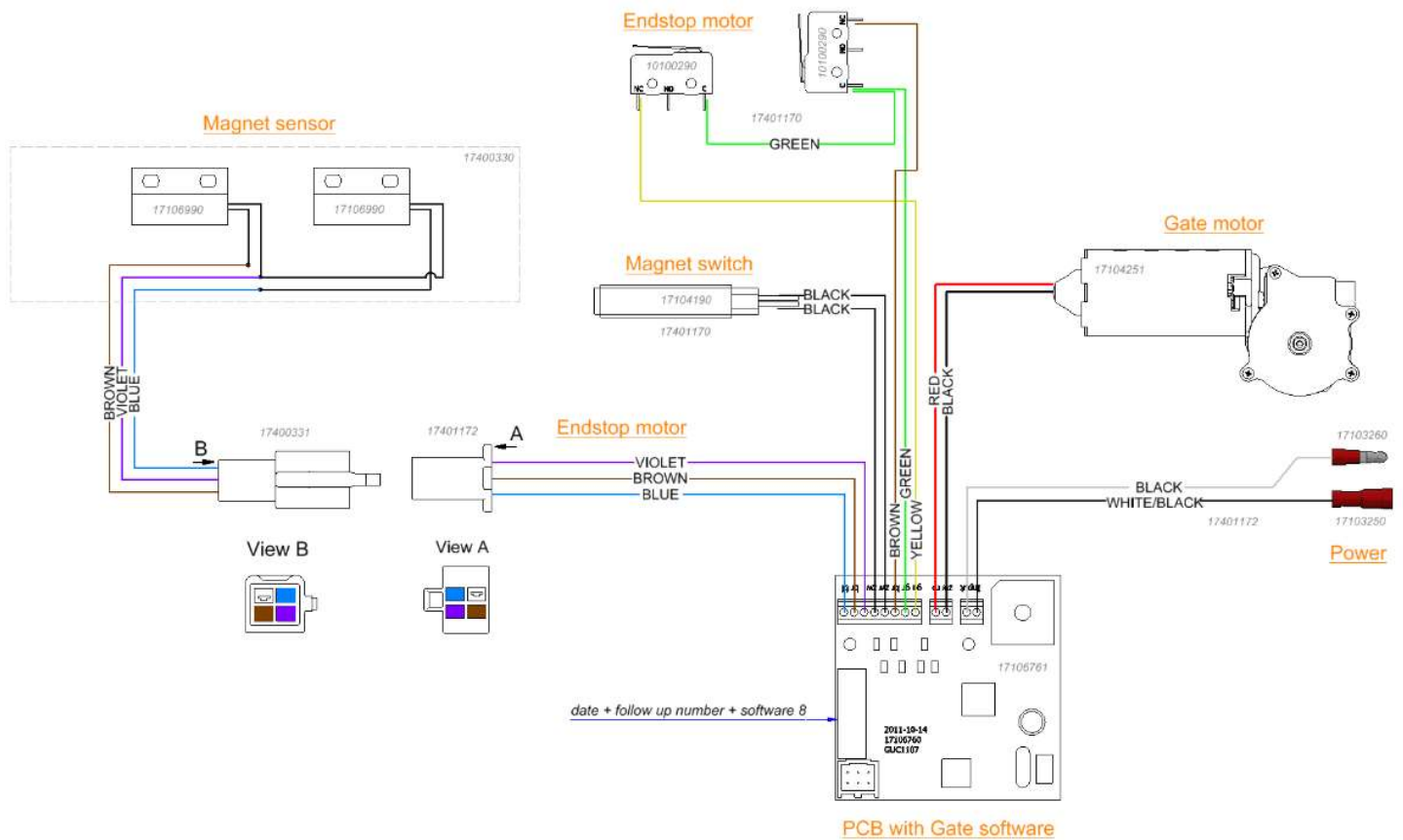
10.5 Parts List Gate



pos	part.nr.	name	pos	part.nr.	name
1	17400682	Electric gate complete	13	17106990	Magnet switch - sensor
	17400680	Electric gate compl - RCA	14	17104151	Spring
2	17400690	Mechanical gate complete	15	17100070	Socket head scr. M6x40
3	17400700	Clamp block	16	13100320	River nut M6
4	17203400	Grip block	17	17100221	Set screw M6x16
5	17400330	Cassette magnet sensor	18	10100710	Nut M5
6	17400221	Gate interface	19	17203160	Rivet bus
7	17400211	Interface sensor AMP conn.	20	17104370	Metal screw M2,5x12
	17400210	Interface sensor RCA conn.			
8	17104251	Gearmotor			
9	17106761	Circuit board gate S7		17401330	Power supply set complete
10	10100290	Micro switch		17107910	Power supply Gate/Carrousel
11	17104190	Magnet switch gate			Old power supplies no more available.
12	17104180	Magnet plate			

* Thread lock 11101110

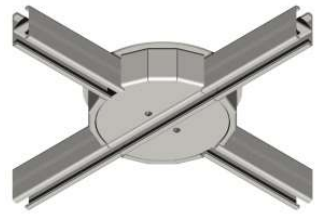
10.6 Electrical schematic Gate



11 Carrousel

11.1 What does a Carrousel do

A Carrousel is used to move forward, left, or right from a straight rail, straight or at a certain angle. Up to four turns are possible from the carrousel.



11.2 What are the movements.

If you put the cassette under the carrousel, the carrousel will beep and will start spinning automatically after a few seconds. The carrousel contains a small motor that makes the carrousel turn.

11.3 What to consider when it comes to maintenance.

Adjusting the rotating rail

The rail can be adjusted in the carrousel by loosening the adjustment screws that strike on the rail and adjusting the microswitch stop screw slightly. Adjust the screw by spinning the carrousel and sliding a loose magnet into the rail. The end of the stroke is determined by the micro, if the rail is in the right position, you turn the set screw against it and secure it with the nut.

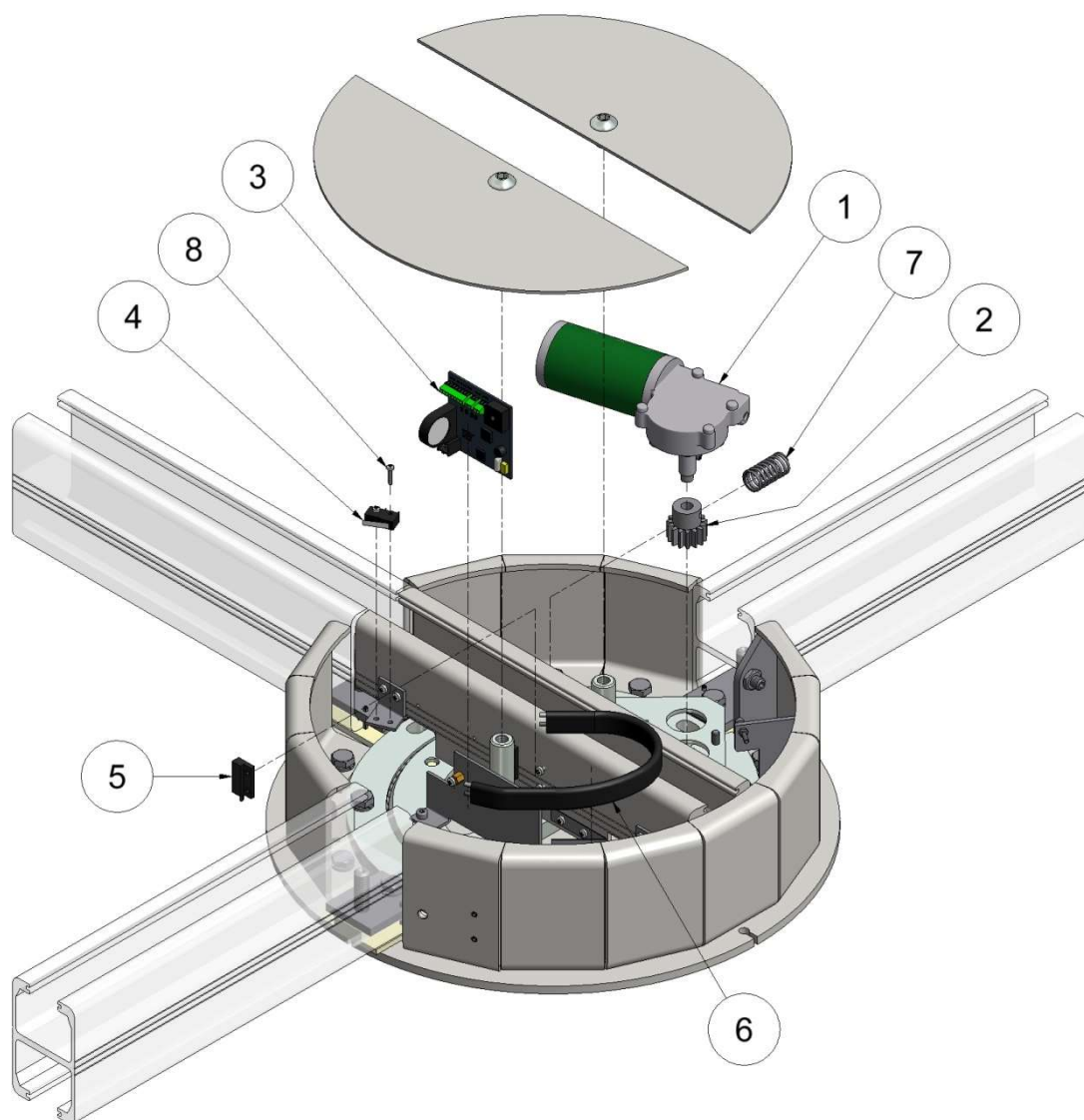
Carrousel attachment

If the carrousel is difficult to turn, this may be due to the attachment of it. Take the power off the carrousel. Under the hoods is a motor that is pressed against the gear ring with a spring outward. Squeeze it towards the rail and move the carrousel. If this is difficult to turn, this may be due to the attachment of the threaded rods to the carrousel. If this is not the same, the carrousel is difficult. Adjust it with the nuts as flat as possible.

11.4 Which parts need to be replaced periodically.

There are no parts that need to be replaced periodically.

11.5 Parts List Carousel

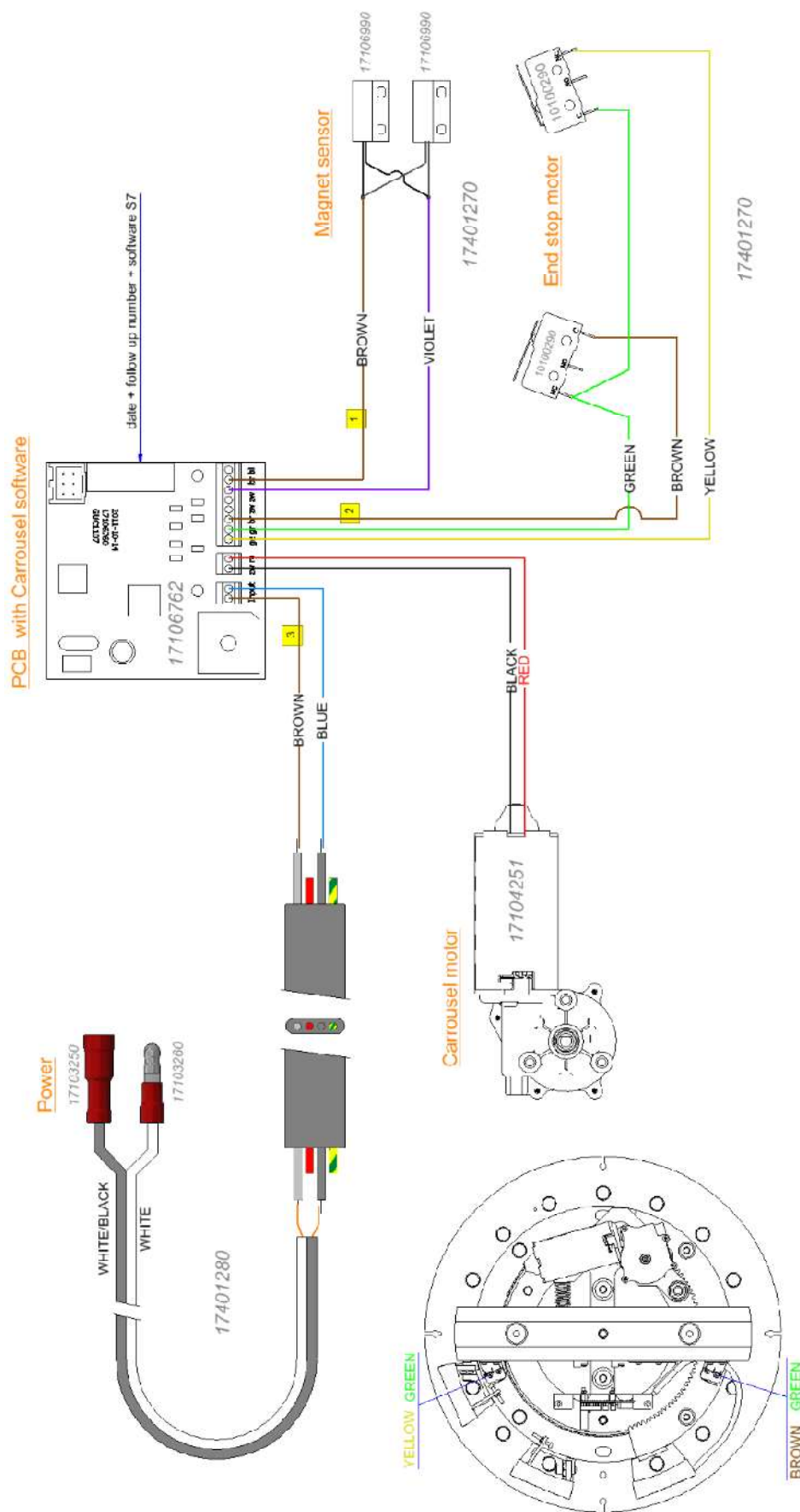


pos	part.nr.	name
1	17104251	Gearmotor
	17104251	Gearmotor before 04-2019
2	17104261	Gear wheel
	17104260	Gear wheel after 04-2019
3	17106762	Circuit board carousel S5
4	10100290	Micro switch
5	17106990	Magnet switch
6	17104981	Flat cable

pos	part.nr.	name
7	17106210	Spring
8	17104370	Metal screw M2,5x12
	17401330	Power supply set complete
	17107910	Power supply Gate/Carousel
		Old power supplies no more available.

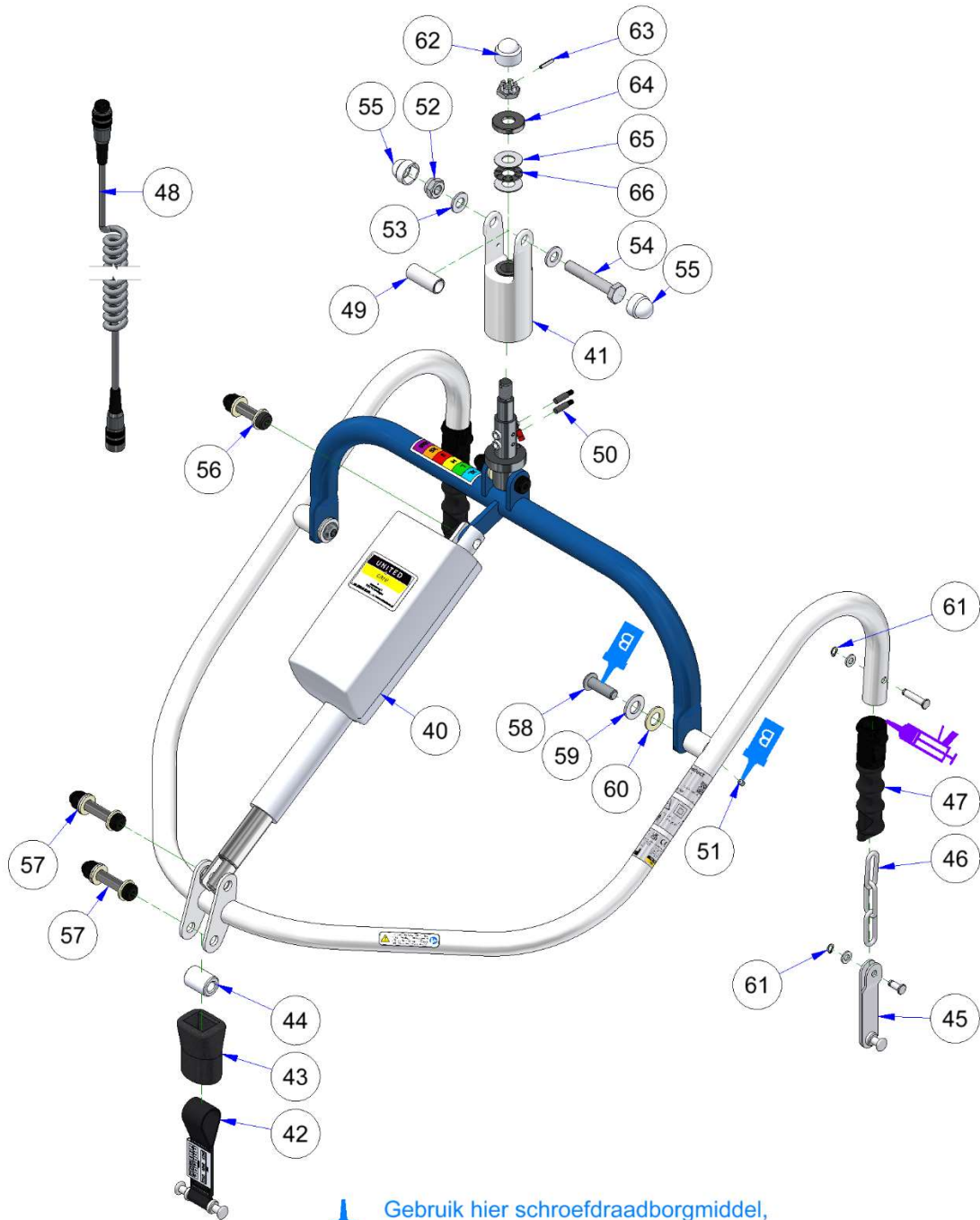
* [Thread locker 11101110](#)

11.6 Electrical diagram Carrousel



12 Spreader bars

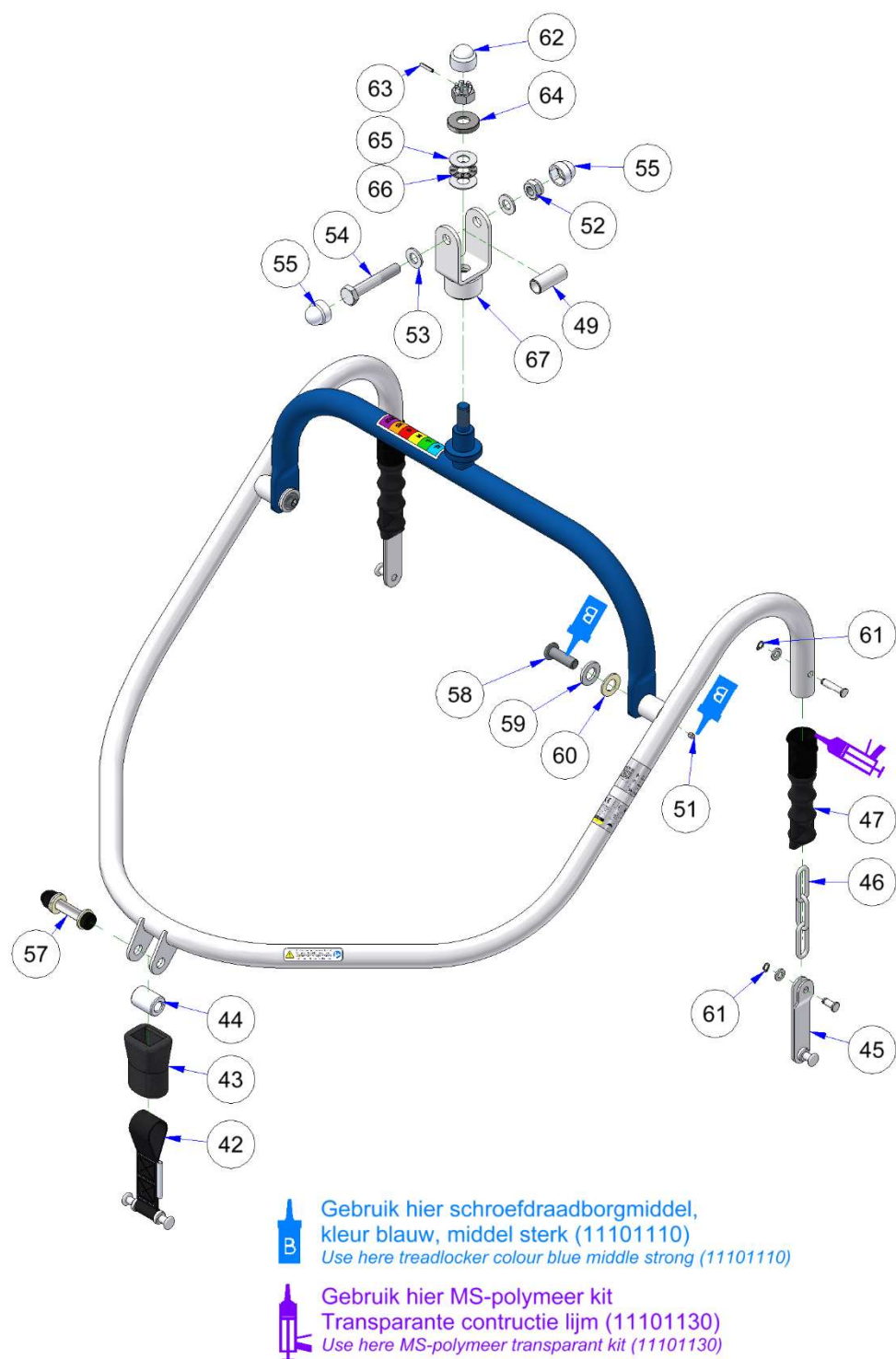
12.1 Electric Spreader bar Parts List



Gebruik hier schroefdraadborgmiddel,
kleur blauw, middel sterk (11101110)
Use here treadlocker colour blue middle strong (11101110)

Gebruik hier MS-polymeer kit
Transparante constructie lijm (11101130)
Use here MS-polymeer transparant kit (11101130)

12.2 Spreader bar balance parts list



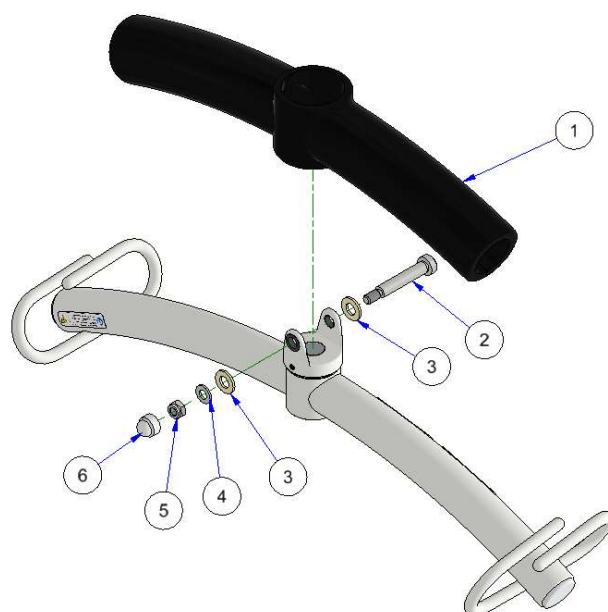
pos	name	part.nr.
40	Motor La28 (grey > black-interchangeable)	32100200
41	Coupling Interchangeable with yellow and green spreader bars	32400152
42	Double clip hook Double clip hook before 03-2021	22300210 22300090
43	Protective rubber	32100440
44	Swivel bush clip hook Spacer before 03-2021 Quick lock bus Ø5 before 03-2021	22200550 32200830 32101920
45	Clip hook	32300150
46	Chain 3 links	32101760
47	Rubber sleeve	32201400
48	Curled wire grey (was black)	17106261
49	Bus Ø15	32201750
50	Carbon brush	32100720
51	Set screw M5x6 A2	11100560
52	Lock nut M10	11100250
53	Washer M10	11100220
54	Hex bolt M10 x 60	11100300
55	Cap M10 wit	32103200
56	Fitted bolt set 26	11400390
57	Fitted bolt set 34	11400430
58	Low button head screw M10x30	32101730
59	Washer M12	14100090
60	Distance ring M12x1,5	32102530
61	Retaining ring 6mm	32101740
62	Cap M12 wit	11101120
63	Fitted bolt 3x16	11100620
64	Bearing housing	32202180
65	Bearing disc	32103470
66	Axial bearing	32103460
67	Coupling	32300280

Spreader bar strap

The front clip hook (double clip hook - legs - 22300210) must be thoroughly checked every year for any wear and damage. A fraying is rejected and must then be replaced.

The clip hook (with strap) should be replaced every 5 years.

12.3 Two point spreader bar



pos	name	part.nr.
1	Protective rubber (black)	32109301
2	Fitted bolt M8xØ10x50	11101890
3	Washer M10 nylon	32102520
4	Washer M8	20100090
5	Lock nut M8	12100710
6	Cap M8 white	17103630



Class I medical device.

The product complies with the requirements of the Medical Device Regulation 2017/745.

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