

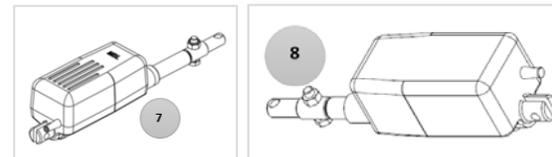
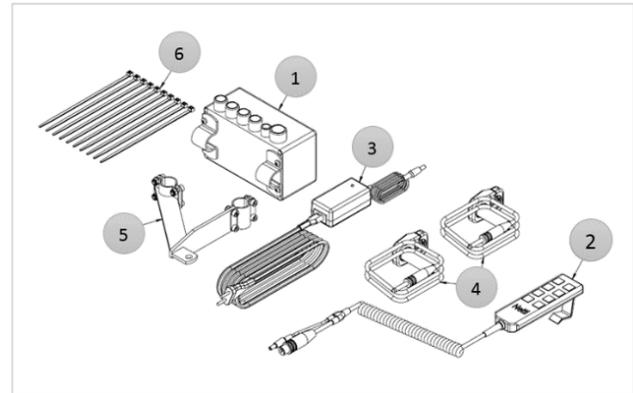


Assembling electrical kit 81995 to a Netti III

The kit consists of :

- Pos. 1 - 1 X Controlbox complete
- Pos. 2 - 1 X Remote control
- Pos. 3 - 1 X Charger
- Pos. 4 - 2 X Leg support - Actuator contact w/bracket
- Pos. 5 - 1 X Front tie bar complete
- Pos. 6 - 10 X Cable ties
- Pos. 7 - 1 X Actuator back
- Pos. 8 - 1 X Actuator tilt
- Pos. 9 - 2 X Lock nut M8
- Pos. 10 - 2 X Bended washer
- Pos. 11 - 2 X Nut cover cap

Pos. 12 shows optional available actuator for leg support

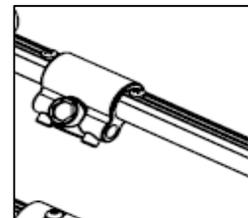
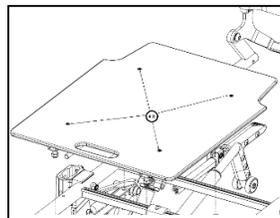


Pos. 9, 10 and 11

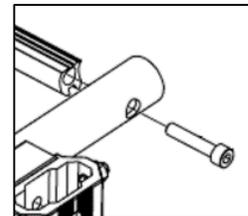
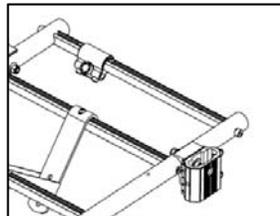


Check if all items are available before starting the work!

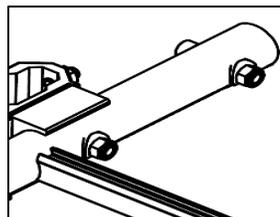
1. Remove the seat plate by disassembling the 4 screws and remove the gas cylinders for tilt and recline from chair. The cylinder hinge for tilt remains on the cross tube.



Remove the rear cross tube at seating frame by disassembling the bolts M8x40 Hex socket head on left and right side of the seating frame.

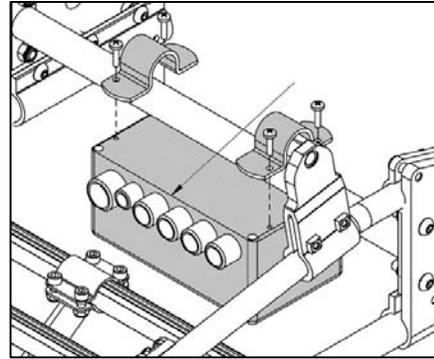
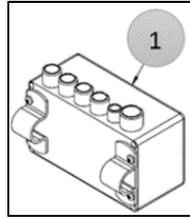


After put bolt M8x40 Hex socket head on left and right side of the seating frame back, add bended washer and fix the bolt with lock nut M8. Tighten the nuts with 14Nm when mounting back. Add nut cover caps after.

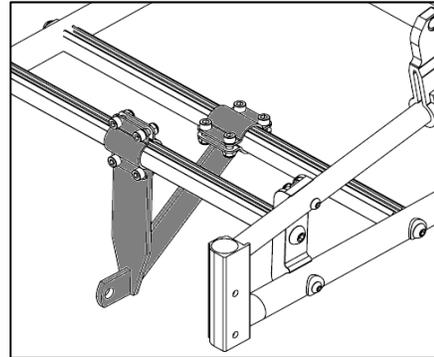
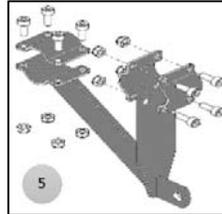


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2. Fix the Controlbox by using the clamps at the rear cross tube of the wheel frame.

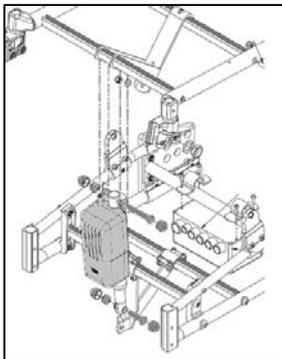


3. Assemble the front tie bar for the tilt with the 8 bolts and nuts at the 2 front tubes of the wheel frame.

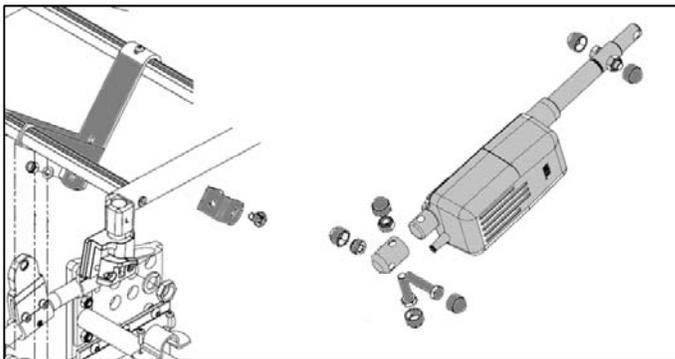


4. Assemble the actuators to the frame as shown on pictures below.

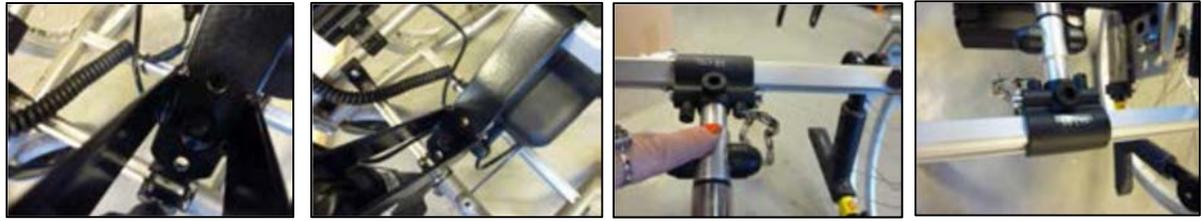
Tilt actuator



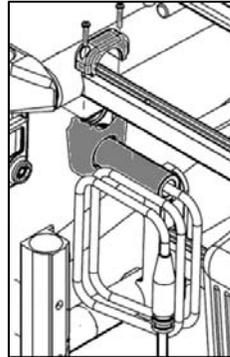
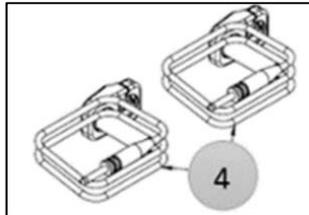
Recline actuator



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- Fix the actuator contact bracket for the foot rests on each side of the front cross tube at seating frame.



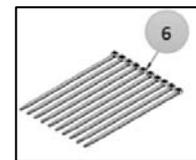
- Plug in the contacts to the Controlbox.

The different functions for the Controlbox is printed on the Controlbox label.



- The cables is to be tied in a way that no function is stuck and to prevent the cables to be stretched or damaged operating the Electrical kit.

Use 2 cable ties to collect loose hanging cables between the actuators.



Use 2 cable ties on each side of seating frame front tube to fix the cables of the actuator contact bracket.



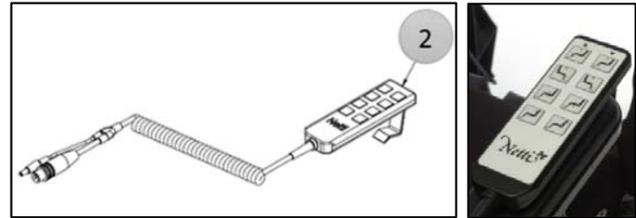
Use 2 cable ties on each side pipe of the seating frame.



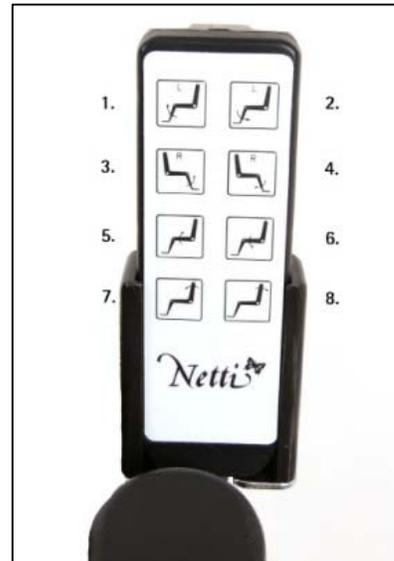
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8. Connect the remote control unit with the Controlbox.

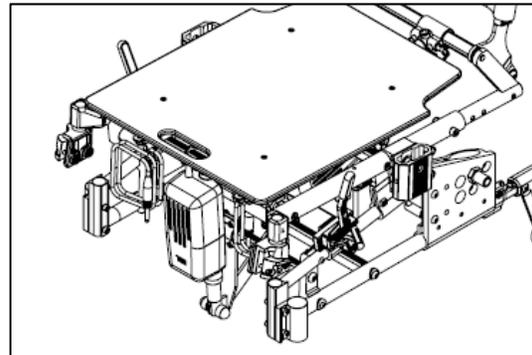
On the remote control the icons describing the different functions.



- 1 = Left foot support up
- 2 = Left foot support down
- 3 = Right foot support up
- 4 = Right foot support down
- 5 = Tilt back
- 6 = Tilt forward
- 7 = Recline forward
- 8 = Recline back



9. The seat plate can now be assembled back again.



10. To charge the Electrical kit you need to connect the charger with the remote control unit. You will find a hole at the back side of the remote control unit to plug the charger.



At the next pages you will find the User Manual for the Netti III Electric with additional information.

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User Manual - Electrical components

The products are CE-Marked, & follows EMC Standard EMC 60601-1-2.

Technical Specifications electrical actuators for Netti wheelchairs

Power: 100-240 V

Battery and Actuators: 24V

Temperature: -20C - +50C

Service is to be carried out by distributor or qualified technician.

Warranty electrical components: 2 years for product related defects.

Warranty battery: 1 year when properly maintained.

Maintenance

The battery should be recharged every day after use.

If the battery is not being used on a regular basis, it must be recharged at a minimum every 3 month.

Maximum charge time: 24 Hours. When the green light is glowing, the battery is fully charged.

For mounting or replacing a battery, see following chapter

Cleaning

Actuators:

The actuators are cleaned for dust and dirt according to need, and should be optically checked for mechanical damage and breakage on a regular basis. The actuators should be wiped with a damp cloth.

Remote control

The remote control should be wiped with a damp cloth according to need.

Control box

The battery should be wiped with a damp cloth according to need, the sockets should only be wiped on the inside with a dry cloth.

Charger

The charger must be wiped with a dry cloth.

Weight

Control box: 1900 Gram

Tilt actuator: 1650 Gram

Recline actuator: 1610 Gram

Foot support actuator: 984 Gram (Pr. piece)

Hand control: 240 Gram

Cable for charger: 20 Gram

Total package: app. 7, 4 kg



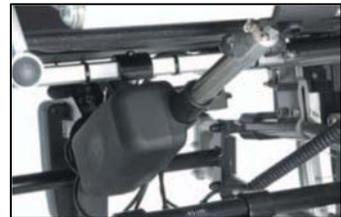
Control box



Actuator Foot support



Tilt actuator



Recline actuator

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This procedure includes the following:

- Installing/removing batteries into/from battery boxes
- Connecting battery cables

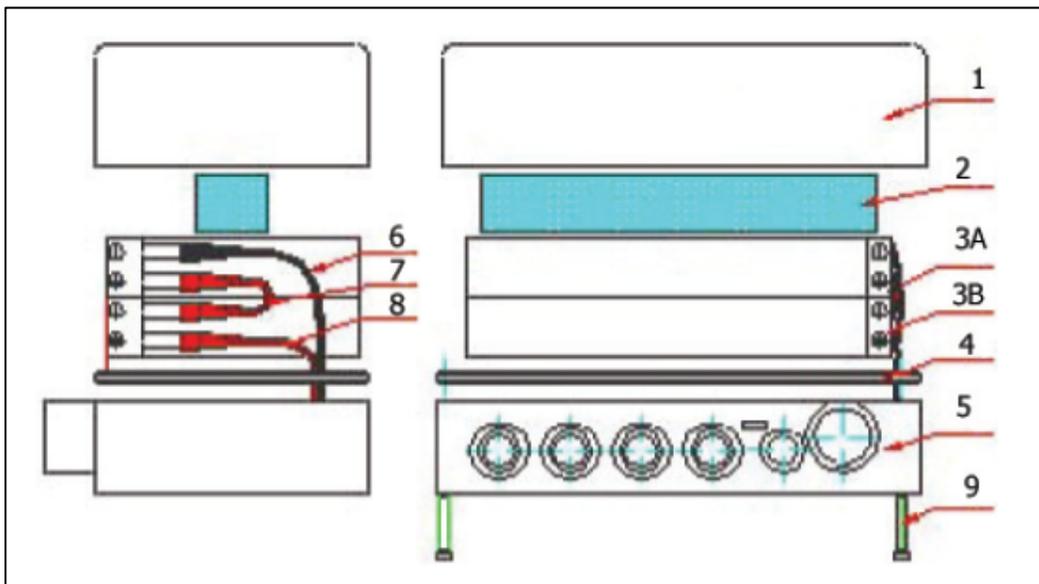
Warning/Notes

- Make sure POWER to the control box through charger IS OFF before performing this procedure.
- Before ANY actions, make sure all the jack plugs are disconnected - otherwise failure or damage of associated equipment may result.
- NEVER allow any of your tools and/or battery cables to contact BOTH battery terminals at the same time.
- An electrical short may occur and serious personal injury or damage may occur.
- We strongly recommend that battery installation and replacement ALWAYS be done by a qualified technician.
- The control box uses a sealed lead battery (CP1220) which must be recycled or disposed of properly.
- To remove the batteries from the battery box have a cross or flat screwdriver available (PZ, P).

The control box consists of:

(On the Netti Chair the box is mounted upside down compared with the illustration)

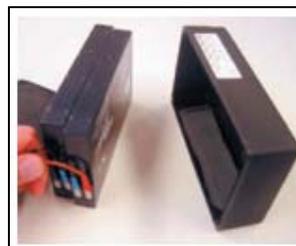
1. Upper cap (1pc)
2. Securing sponge (1pc)
3. Battery (3a,3b) (2pcs)
4. Separating plate (1pc)
5. Bottom cap (1pc)
6. Long wire with black covering (1pc)
7. Short wire with red or blue covering (1pc)
8. Long wire with red covering (1pc)
9. Fixation bolt (4pcs)



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The battery removing procedure:

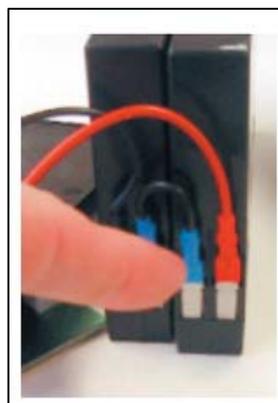
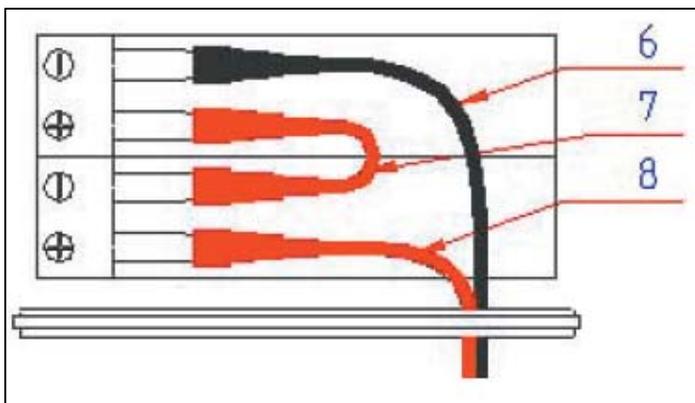
1. Clean the new battery terminals using a dry cloth
2. Place the control box on upper cap (upside down)
3. Unscrew four fixing bolts
4. Remove top cap
5. Pull out the battery cables from terminals
6. Take out the existing lead batteries from battery box
7. Clean the new battery terminals
8. Install the new batteries into the battery boxes.
Make sure that the terminals description on the batteries is facing the front side of control box.
9. Connect cables with terminals refer to battery cables connecting instruction. See below.
10. Cover the batteries with upper cup.
11. Replace fixing bolts with screwdriver.



The battery cables connecting procedure:

Connect battery cables to battery terminals as follows:

1. Negative (-) black battery cable (6) to negative (-) upper battery (3a) terminal
2. Positive (+) red battery cable (8) to positive (+) lower battery (3b) terminal
3. Remaining terminals (centre) connect by using short red or blue cable (7)



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Troubleshooting for Netti electrical wheelchair

General

If an actuator is not responding when pressing the control panel:

Check that all contacts to the actuator are securely in position.

It can be an advantage to have the control box set to charge. It will then increase its performance, if the case is that the control box is low on battery.

- If for example a foot support is not working, pull out the plug from the control box, and try another outlet to see if it works.
- If it now works something is either wrong with the outlet in the control box or the control panel. Try with a new control panel. You can also try using another actuator in the outlet for the foot support to confirm that the outlet is broken.
- If it does not work, remove the foot support and pull out the plug for the foot support actuator from the contact bracket attached to the seat frame. Test it in another outlet directly in the control box, or in the contact bracket on the opposite side.
- If it now works, the cable going from the control box to the contact bracket is defect, and should be replaced with a new one. If the actuator is not working in any other outlets, it is defect and should be returned to the supplier.

The same procedure is to be followed for all the actuators.

Troubleshooting for Netti electrical equipment

Symptom	Possible cause	Action to be taken
No engine sound or movement of piston rod	Actuator is not connected to control box	Plug the actuator to another outlet in the control box
	Fuse in control box has blown	Change the fuse (contact dealer)
	Cable is damaged	Send actuator to reparation
Engine is working but no movement of piston rod	Toothed wheel or spindle is damaged	Send actuator to reparation
Engine sound but no movement of piston rod		Send actuator to reparation
Actuator moves too slow or has low yield	Too low power supply	Recharge battery
	Voltage drop in cable	Send actuator to reparation
Piston rod goes in but doesn't come out	Safety nut has become operative	Send actuator to reparation
Too much power consumption		Send actuator to reparation

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