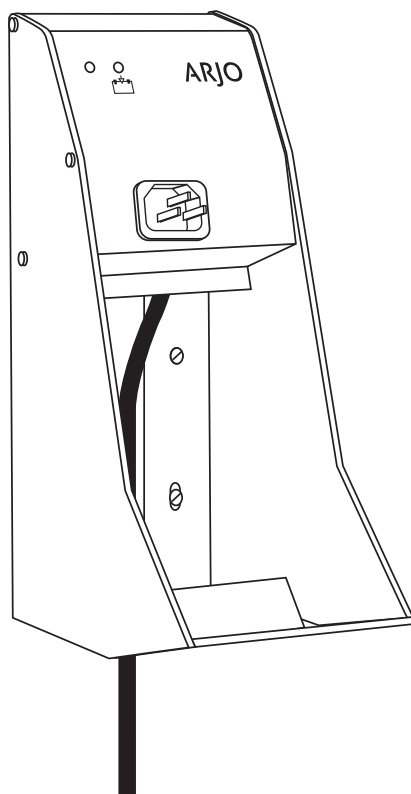


INSTRUCTIONS FOR USE

NCA 1000, 2000, 3000, 4000, 6000

Battery Charger



WARNING

To avoid injury, always read this Instruction for Use and accompanying documents before using the product.



Mandatory to read the Instructions for Use

Design Policy and Copyright

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Foreword

Thank you for purchasing Arjo Equipment

Your *Battery Charger* is a part of a series of quality products designed especially for hospitals, nursing homes and other health care use.

Please contact us if you have any questions about the operation or maintenance of your Arjo equipment.

Please read this *Instructions for Use* thoroughly!

Please read this *Instructions for Use (IFU)* in its entirety before using your *Battery Charger*. Information in this *IFU* is crucial to the proper operation and maintenance of the equipment, will help protect your product, and make sure that the equipment performs to your satisfaction. Some of the information in this *IFU* is important for your safety and must be read and understood to help prevent possible injury.

Unauthorized modifications on any Arjo equipment may affect its safety. Arjo will not be held responsible for any accidents, incidents or lack of performance that occur as a result of any unauthorized modification to its products.

Service and Support

A service routine has to be done on your *Battery Charger* by Arjo authorised service personnel to ensure the safety and operating procedures of your product. See section *Care and Preventive Maintenance on page 9*.

If you require further information, please contact Arjo for comprehensive support and service programs to maximize the long-term safety, reliability and value of the product.

Contact Arjo for replacement parts. The contact information is found on the last page of this *IFU*.

Definitions in this *IFU*

WARNING

Means:

Safety warning. Failure to understand and obey this warning may result in injury to you or to others.

CAUTION

Means:

Failure to follow these instructions may cause damage to all or parts of the system or equipment.

NOTE

Means:

This is important information for the correct use of this system or equipment.



Means:

The name and address of the manufacturer.

Intended Use

This equipment must be used in line with its intended use and in accordance with these safety instructions. Anyone using this equipment must also have read and understood the instructions in this *Instructions for Use (IFU)*.

If there is anything you are not sure about, contact your Arjo representative.

This charger is intended for charging *Arjo* battery 102193 only, in accordance with the instructions outlined in the *Instructions for Use*.

All other use must be avoided.

Installation & Service Requirements

The expected life of the *Battery Charger NCAXXX-XX*, is unless otherwise is stated ten (10) years, if subject to preventive maintenance being carried out in accordance with the instruction for *Care and Preventive Maintenance* found in the *Instructions for Use (IFU)*.

Assembly of parts must be mounted according to the instructions in the *Instructions for Use (IFU)*.

Safety Instructions

WARNING

Do NOT cover the charger due to fire hazard.

WARNING

To avoid fire, make sure the charger is installed and used in a well ventilated area.

WARNING

To avoid fire and electric shock, make sure the charger is installed and used in a dry and dust free environment.

WARNING

To avoid bodily injury, do NOT crush, puncture, open, dismantle or otherwise mechanically interfere with the battery.

- Should the battery casing crack and cause contents to come in contact with skin or clothing, rinse immediately with plenty of water.
- If contents come in contact with the eyes, rinse immediately with plenty of water and seek medical attention.

Inhalation of the contents can cause respiratory irritation. Provide fresh air and medical attention.

WARNING

To avoid explosion or fire, never use the equipment in oxygen rich environment, in presence of heat source or flammable anaesthetic gases.

WARNING

To avoid electric shock, make sure that the equipment is connected to:

- Continuously powered supply mains with protective earth.
- Separate fuse and ground fault circuit interrupter (GFCI)
- A mains disconnection device
- Equipotential bonding point

All installations must be in accordance with local codes and regulations.

WARNING

To avoid strangulation, make sure to never leave children unattended near the equipment.

WARNING

To avoid bodily injury, keep the *Battery Charger* in a safe place and disconnected when not in use.

The exposure to low voltage, in the *Battery Charger* connector, can be potentially hazardous to children and sensitive persons.

Battery and Charger Safety Practices

- Be careful not to drop the battery.
- Contact the appropriate local authority for advice when disposing of batteries.
- Check label on the charger and battery.

Preparations

Actions Before the First Use (8 Steps)

- 1 Visually inspect the *Battery Charger* for transport damage.
- 2 The package should be recycled according to local regulations.
- 3 Read the *IFU*.
- 4 Unpack the *Battery Charger*.
- 5 Charge the battery until the indicator (LED with orange light) on the charger turns itself off.
- 6 Prepare an area that is dry, with good ventilation and out of direct sunlight for storage of the *Battery Charger*.
- 7 Choose a designated area where the *IFU* should be kept, accessible at all times.
- 8 Make sure to have a rescue plan ready in case of a patient emergency.

Actions Before Every Use (2 Steps)

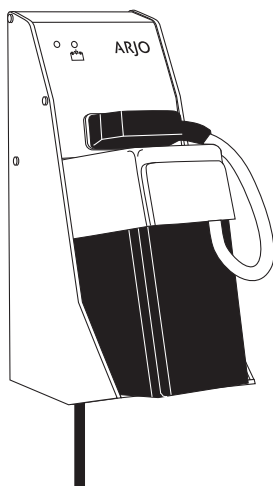
- 1 Carry out a thorough inspection for damage.
- 2 If any part is missing or damaged – Do NOT use the product!

NOTE

If you have any questions, please contact your local Arjo representative for support and service. The contact information (*Arjo addresses*) is listed at the end of this IFU.

Installation of Charger

Fig. 1



Installation

- Keep the *Battery Charger* away from main access areas.
- The *Battery Charger* is designed for dry surroundings and may not be installed in bathrooms or any other wet areas (IP2X).
- Check label on the battery and charger
- Mount the charger to a suitable wall with four screws and plug it in to a standard power (AC) outlet. For screw specifications, see *Technical Specifications on page 11*. (See Fig. 1)
- The *Battery Charger* is not allowed to be used in a patient environment.

Charging the Battery

General

WARNING

Do NOT charge the battery in a sealed compartment due to fire hazard.

CAUTION

To avoid breaking the charger when unplugging the battery connector: Grip the plug and do not pull the cord.

- The charger converts mains voltage to low DC voltage.
- The charger must only be used for Arjo battery number 102193.
- The charger is ready for use as soon as it is plugged in.
- Disconnect the mains by unplugging the charger.
- A green indicator LED indicates that the charger is ready for charging, there is no On/Off button on the charger.

Charging Intervals

- To prolong the life of the battery, charge it at regular intervals, i.e. every night.
- If the Arjo product is used frequently, it is recommended to use two batteries, one in operation and one being charged.

NOTE

The battery can be left in the charger unit even if it is fully charged without being overcharged.

Fig. 1

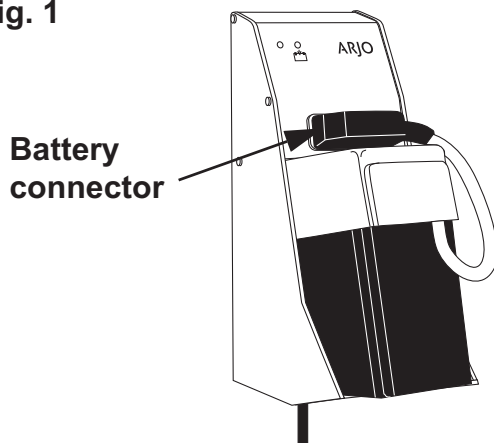
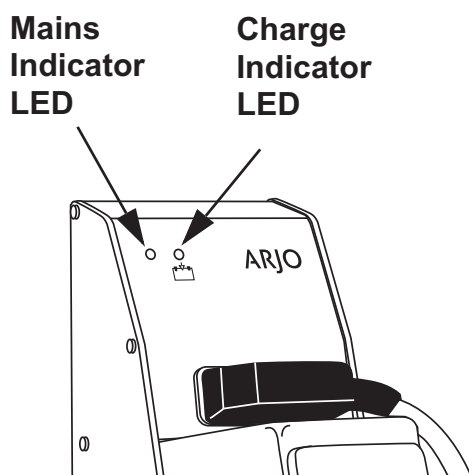


Fig. 2



Charging Procedure (5 Steps)

- 1 Plug in the charger in a power outlet
- 2 Attach the battery to the charger.
- 3 Plug the battery plug to the charger connector.(See Fig. 1)
- 4 The mains indicator LED will turn green when connected and the other charge indicator LED will stay orange during charging.
- 5 Once the battery is charged the orange charge indicator LED will turn itself off and the mains indicator LED remains green. (See Fig. 2)

Cleaning Instructions

Accessories for Cleaning

- Dry cloths or dry disposable towels

Always Follow these 2 Steps for Proper Cleaning

- 1 Disconnect the *Battery Charger* from the mains and unplug the battery.
- 2 Wipe the *Battery Charger* and its cable from visible residue using a dry cloth or a dry disposable towel.

Care and Preventive Maintenance

The *Battery Charger* is subject to wear and tear, the following maintenance instructions must be performed when specified to make sure the equipment remains within its original manufacturing specification.

WARNING

To avoid malfunction resulting in injury, make sure to conduct regular inspections and follow the recommended maintenance schedule. In some cases due to heavy use of the product and exposure to aggressive environment more frequent inspections should be carried out. Local regulations and standards may be more stringent than the recommended maintenance schedule.

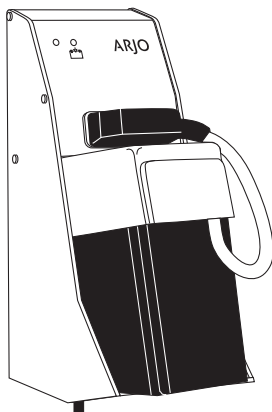
Preventive Maintenance Schedule

CAREGIVER OBLIGATIONS Action/Check	Every WEEK
Visually check all exposed parts	X
Visually check battery and charger	X

WARNING

To avoid injury to both the patient and the caregiver, never modify the equipment or use incompatible parts.

Fig. 1



Visually Check Battery and Charger

Visually check the condition of the *Battery Charger*, its cable and the battery. Withdraw and replace immediately if damaged.

WARNING

To avoid injury and/or unsafe product, the maintenance activities must be carried out at the correct frequency by qualified personnel using correct tools, parts and knowledge of procedure. Qualified personnel must have documented training in maintenance of this device.

QUALIFIED PERSONNEL Action/Check	Every YEAR
Check battery and <i>Battery Charger</i>	X
Check all vital parts for damage	X

NOTE

All Caregiver Obligations are to be checked when performing the Qualified Personnel Service.

Troubleshooting

Problem	Action
Both indicator LEDs do not light up.	<ul style="list-style-type: none">• There is no electricity coming from the AC outlet.• The charger is broken.
The charger and/or power supply cord is broken.	Order a new charger. NEVER open the charger to repair it.

Technical Specifications

General	
The charger model (Type....)	NCA1000–EU, NCA2000–GB, NCA3000–CH NCA4000–US, NCA6000–AU
Mains Supply	100–240 V ~ 50–60 Hz
Power consumption max:	Max 50 VA
Output voltage, charge current	12 V DC, 1 A Max 14 VA
Fuse	T 1.6 AH 250 V
Protection class:	IP2X product must be used in a dry environment.
Insulation class:	I
Pollution degree	2
Battery weight	2.5 kg (5.5 lbs)
Battery charger weight	1.2 kg (2.6 lbs)
Flammability standard	Not applicable (Metal surface)
Operation Force	Approximately 12 N
Ambient temperature	+10 °C to +40 °C (50 °F to 104 °F) Operation -30 °C to +50 °C (-22 °F to +122 °F) Transport, Storage
Relative humidity	30–75% Operation 10–80% Transport, Storage
Atmospheric pressure	800–1060 hPa Operation 500–1060 hPa Transport, Storage
Power Cord Supply	Not allowed to be replaced
Screw for mounting the charger	$N_{rd}=90$ N (Resistance tensile) $V_{rd}=250$ N (Resistance shear)

Mains Disconnection Device
Mains disconnection device must be visible and accessible at all times
Disconnect mains by unplugging the cord from outlet.

WARNING

To avoid injury, always follow the allowed combinations listed in this IFU. No other combinations are allowed.

Allowed Combination

Arjo Battery

102193

Arjo Lift with 102193

Concerto

Combilift

Disposal of the Charger



The device is marked with the WEEE symbol to indicate that it is electronic equipment covered by the Directive 2012/19/EU on waste electrical and electronic equipment. In European countries the crossed out wheeled-bin WEEE symbol reminds you that all the electrical and electronic products, batteries and accumulators must be taken to separate collection at end of their working life. This requirement applies in the European Union. Do not dispose these products as unsorted municipal waste. You can return your device and accessories to Arjo or you can contact your local authorities for advice on disposal.



Labels

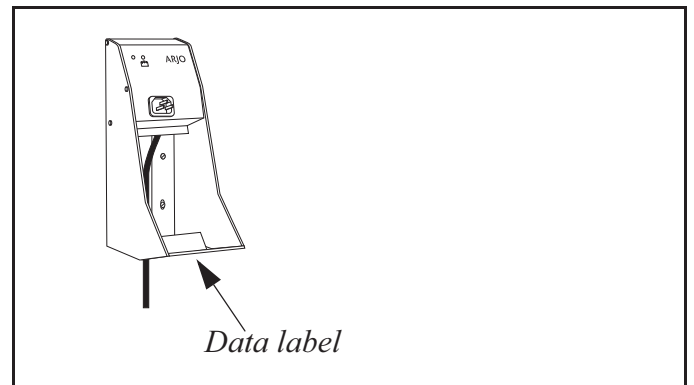
Label Explanation

Data Label	States technical performance and requirements, For example classified safety standard and input voltage.
Label on Package	States the serial number, manufacturer address together with information about recommended operation conditions.

Symbol Explanation

NCA X000–XX	The article number of the Battery Charger. NCA 1000 – EU (Europe) NCA 2000 – GB (Great Britain) NCA 3000 – CH (Switzerland) NCA 4000 – US (USA) NCA 6000 – AU (Australia)
Battery No. (Number)	102193
100–240 V ~ 50–60 Hz	Voltage and AC frequency
Max 50 VA	Power consumption max
12 V DC, 1 A Max 14 VA	Output voltage and charger current
T 1.6 AH 250 V	Fuse on primary side
IP2X	Protection class: The product must be used in a dry location only.
Class I	Insulation class
	Separate electrical and electronic components for recycling in accordance with the European Directive 2012/19/EU (WEEE)
	Read the <i>IFU</i> before use
SE XXXX XXXX	Serial Number

	CE marking in accordance with the Medical Devices Directive 93/42/EEC. The equipment has been EMC–tested and fulfils all requirements according to IEC 60601–1–2. Electric safety according to EN 60601–1.
	Certified by Underwrites Laboratories Inc. with respect to electrical shock, fire and mechanical hazards only in accordance with CAN/CSA-22.2 No. 60601-1 (2008), ANSI/AAMI ES60601-1 (2005) 4ML5.



Electromagnetic Compatibility

Medical electrical equipment needs special precautions regarding EMC (Electromagnetic compatibility) and needs to be used according to the EMC information below.

Portable and mobile RF communications equipment can affect the *Battery Charger*.

WARNING

Stacking or placing other electrical equipment next to this device is not recommended, it can interfere with the equipment's operation and safety. Portable and mobile radio frequency (RF) communications equipment can interfere with this equipment operation and safety.

WARNING

The equipment may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take action, such as reorienting, relocating the equipment or shielding the location.

Guidance and Manufacturer's Declaration – Electromagnetic Emissions

The *Battery Charger* is intended for use in the electromagnetic environment specified below. The customer or the user of the *Battery Charger* should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment – Guidance
RF emissions CISPR 11	Class B	The <i>Battery Charger</i> uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The <i>Battery Charger</i> is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emission IEC 61000–3–2	Complies	
Voltage fluctuations/flicker emission IEC 61000–3–3	Complies	

Guidance and Manufacturer's Declaration – Electromagnetic Immunity


The *Battery Charger* is intended for use in the electromagnetic environment specified below. The customer or the user of the *Battery Charger* should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/bursts IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines input/output lines not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% U_T (>95% dip in U_T) for 0,5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 s	<5% U_T (>95% dip in U_T) for 0,5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 s	Mains power quality should be that of a typical commercial or hospital environment.
Power frequency (50/60 Hz) Magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE U_T is the a.c. mains voltage prior to application of the test level

Guidance and Manufacturer's Declaration – Electromagnetic Immunity

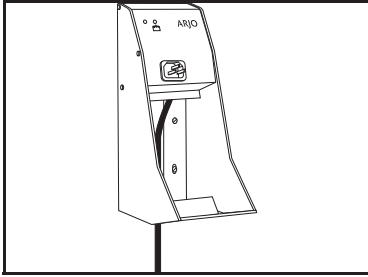
The *Battery Charger* is intended for use in the electromagnetic environment specified below. The customer or the user of the *Battery Charger* should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the <i>Battery Charger</i> , including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d=0,35\sqrt{P}$ $d=1,2\sqrt{P}$ 80 MHz to 800 MHz $d=2,3\sqrt{P}$ 800 MHz to 2.5 GHz Where P is the maximum output power rating of the transmitters in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	

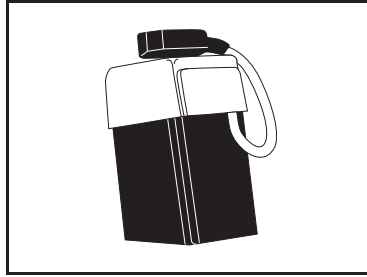
^a) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strengths in the location in which the *Battery Charger* is used exceeds the applicable RF compliance level above, the *Battery Charger* should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary.

^b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 1V/m.

Parts and Accessories



Battery Charger
NCAX000-XX



Extra battery
102193

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Address page - REV 23: 01/2019

At Arjo, we are committed to improving the everyday lives of people affected by reduced mobility and age-related health challenges. With products and solutions that ensure ergonomic patient handling, personal hygiene, disinfection, diagnostics, and the effective prevention of pressure ulcers and venous thromboembolism, we help professionals across care environments to continually raise the standard of safe and dignified care. Everything we do, we do with people in mind.



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