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User's Guide

Product Type : NE–Z41, NE–Z41SH Document Number : 81-SS00126 (Ver.6) Date of issue : 2024-02

Related prosthetist IFU : 81-SS00125 (Ver.6)

Language : English



Carefully read the User's Guide prior to use.Keep this User's Guide for future reference.



Nabtesco Corporation

Introduction

Thank you for purchasing Nabtesco ALLUX[™].

ALLUX[™] is a microprocessor controlled prosthetic knee joint with four-bar linkage which provides safe and comfortable walking through a combination of hydraulic control and computer control.

This user's guide (hereinafter referred to as this document) was produced by Nabtesco Corporation to ensure safe and comfortable use of ALLUX[™].

This document describes matters concerning typical usage such as fitting and walking, maintenance, trouble shooting and cautionary notes that anyone utilizing ALLUX[™] needs to know.

Important Information

Intended purpose of ALLUXTM

ALLUX[™] was designed and is manufactured for use as a prosthetic knee joint by above-knee amputated, knee disarticulated, hip disarticulated patients. Do not use ALLUX[™] for any other purposes. For hip prostheses, it is recommended to use a torsion adapter to prevent application of large torsion to ALLUX[™]. For the specifications for ALLUX[™], see 2.Product Overview.



■Do not use ALLUX[™] outside of the specification range. Do not modify the main body or parts. Doing so can cause injury or damage ALLUX[™].

Cautions for handling ALLUX[™] safely

Nabtesco Corporation (hereinafter, referred to as Nabtesco) cannot foresee all of potential residual risks of ALLUX[™] and risks resulting from human errors and usage environment.

Although there are a lot of instructions and prohibitions for handling ALLUX[™] (assembling, adjusting and maintaining the prosthesis), all these matters cannot be described in this document or on the warning labels on the body of ALLUX[™].

Therefore, when handling ALLUX[™], it is necessary not only to observe the precautions stated in this document, but also to take safety measures necessary for prosthesis knee joint.

Particularly important matters concerning the safe handling of ALLUX[™] are described below.

Read this document thoroughly

Before handling ALLUX[™], thoroughly read this document, and sufficiently understand the contents. Strictly observe the safety precautions stated in the document.

Qualification of assemblers and adjusters

Only the persons who have received ALLUX[™] license seminar are allowed to assemble and adjust it. If necessary, inquire your ALLUX[™] certified prosthetist.

About This Document

Target of this document

This document is intended for the prosthetic users.

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When this document is lost or damaged

If this document or any related document is lost or damaged, immediately ask the Local sales representative or Distributor(hereinafter,referred to as the Distributor) to reissue it. Handling ALLUX[™] without this document can cause accidents.

Information

The information on this manual is subject to change without prior notice for product improvement.

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Structure of This Document

This document consists of the following chapters.

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1 Safety Precautions

1.1 Definition of symbols

Throughout this manual, the following signal words are used to classify and explain the hazards and damages which may be caused by improper usage not conforming to the instructions.

	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Damage only.

As protective measure above-mentioned, the instructions to be observed are classified and explained by using the following pictograms.



Indicates actions that you must not do when handling the product.

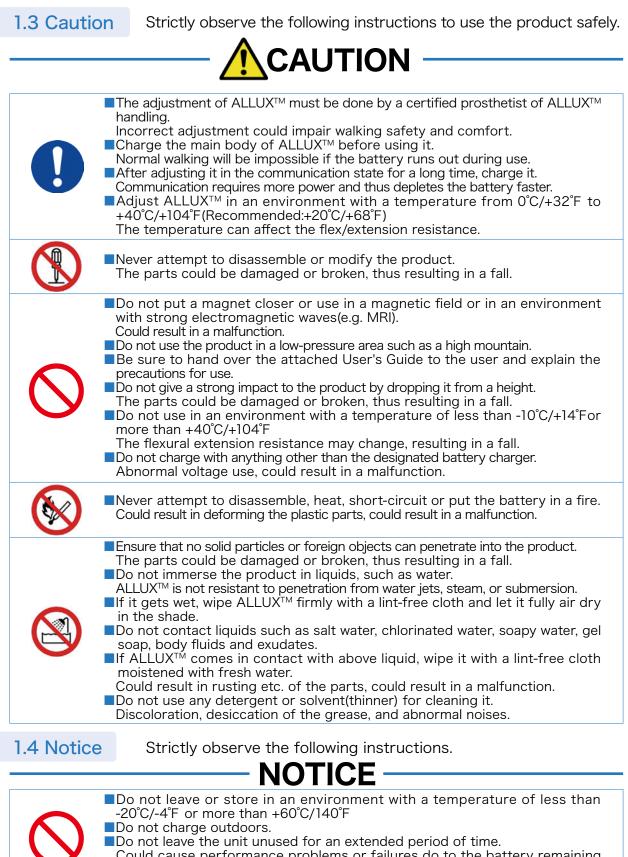
Indicates actions that you must do based on instructions when handling the product.

1.2 Warning

Strictly observe the following instructions to use the product safely.



	 Please ensure to read the notes on usage. Incorrect use, the parts could be damaged or broken, thus resulting in a fall. When detecting abnormal noise, play or reduction in hydraulic resistance, discontinue the use, and contact the Distributor. Use when it feels abnormal, the parts could be damaged or broken, thus resulting in a fall.
\bigcirc	 Do not use for a user who weighs more than 125 kg. Use when the weight limit is exceeded, the parts could be damaged or broken, thus resulting in a fall. Do not carry heavy items at all time. Do not perform violent operations when carrying a heavy item. Do not use if the user is not in a condition to use the prosthesis knee joint. This could get aggravation of symptoms. Do not use for sports. Do not use for any purpose other than prosthesis knee joint. The parts could be damaged or broken, thus resulting in a fall.
	 When bending ALLUX[™], do not put your hand behind the knee joint. When extending ALLUX[™], do not touch the knee. This can cause injury from your hand being caught in the knee joint. Be careful so that the form cover or stocking gets caught in the four-bar joint section or other parts. It may cause an operational malfunction.



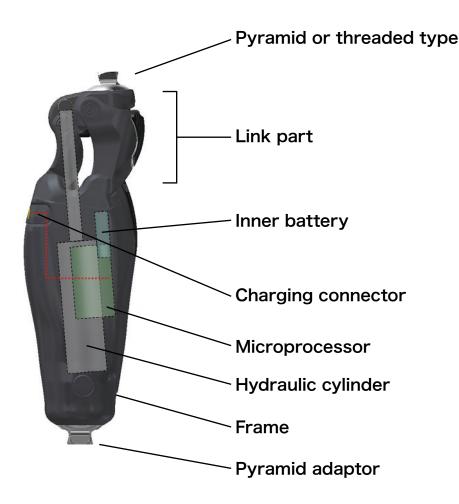
Could cause performance problems or failures do to the battery remaining in completely discharged state, the hydraulic fuild or bearing grease deteriorating, and/or the knee axis becoming set in a fixed position.

2.1 Overview of ALLUX[™]

ALLUX[™] is a knee joint with a four-Bar linkage mechanism to electronically control the stance and swing phases. It provides smooth walking according to the walking speed and enables yielding required for descending a slope or stairs. The safety lock function can be used to stop ALLUX[™] suddenly bending and as an anti-stumbling function for when the toes get stubbed on the ground etc. The internal power supply supports use of the prosthesis for 5000 steps per day over a period of 4 days(Only a guide as it can vary with the usage conditions).

2.2 Basic structure

ALLUX[™] has a pyramid adapter at the bottom and either a pyramid or threaded adapter at the top. The frame is made of carbon, and the link parts are made of an aluminum alloy. The stance and swing phase control is performed by a hydraulic cylinder.



2.3 Certification of International Standard

Structural durability

ALLUX[™] was tested for 3 million walking cycles with load of 125kg which corresponds to the average working distance within about 3 years. We will not assume liability for ageing or damage of the product.

*for products with extended warranty: Exchange of structural parts is covered by the warranty.

ISO10328-P6-125kg*)





 *) Body mass limit not to be exceeded. For specific conditions and limitations of use see manufacturer's written instructions on intended use.

K Level(MOB)

K2 Level(MOB2): User can handle small environmental barriers such as curbs, steps, or irregular ground both indoors and around the home.

K3 Level(MOB3): User can handle most environmental barriers, and can walk at different speeds. In addition to simple walking, he/she can do light work and exercise as well.

K4 Level(MOB4): User has physical abilities higher than basic walking; children, athletes, etc.

EMC Information

ALLUXTMbelongs to Group 1 and Class A equipment in accordance with IEC/EN60601-1-2. ALLUXTMrequires special precautions regarding EMC (Electromagnetic Compatibility) and need to be installed, put into service and used according to the following information.

Do not use any cables other than the cables that provided or specified by the manufacturer, Nabtesco Corporation.



Do not use the peripheral devices other than those specified, with the exception of transducers and cables sold by Nabtesco Corporation as replacement parts for internal components.

That may result in increased emissions or decreased immunity of ALLUX™.

- Do not use ALLUXTM adjacent to other equipment. Portable and mobile RF communications equipment can affect ALLUXTM. If adjacent use is necessary, take care.
- Please carefully read this instruction manual to avoid the risk of ignition or electric shock.

Declaration of Conformity

Nabtesco Corporation, hereby declare that following Class I medical device complies with the essential health and safety requirements of the REGULATION (EU) 2017/745 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC

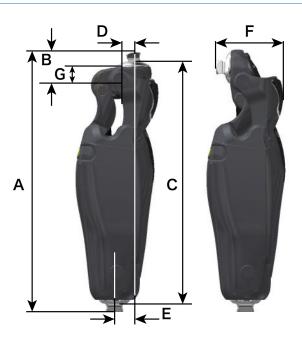
2 Product Overview

2.4 Specifications

ApplicationWeight: 15	 41 (pyramid), NE-Z41SH (threaded) Water resistance: IP44 Internal power supply: K3(MOB3):125kg(275 lb) K4(MOB4):100kg(220 lb) 10g(NE-Z41)/1520g(NE-Z41SH) flexion angle: 180° Communication distance: Within 5 m Usage temperature: -10°C/+14°F ~ +40°C/+104°F
	 Note that with the above temperature operating range the hydraulic resistance will decrease at higher temperatures and increase at lower temperatures. Normal walking will not be supported, possibly resulting in a fall.
NOTICE	 Do not give the product a strong impact, such as hitting the front cover to the product. This could deteriorate its water-proof performance. Do not immerse the product in water. Do not wash the product with a high temperature or pressure. This could allow water invasion and damage the product. If the product is wetted, wipe the moisture out. Do not allow saltwater such as seawater to attach to the product. If liquid other than water attaches, wash the product. Do not use any detergent. Such liquid could cause rust or corrosion. The maximum flexion angle may be less than 180 °depending on the shape of the socket and the presence of a resin stopper.

Dimensions :

	NE-Z41	NE-Z41SH
А	295mm	287mm
В	30mm	22mm
С	268mm	266mm
D	15mm	15mm
Е	21mm	21mm
F	76mm	68mm
G	16.5mm	14mm



% 1 inch = 25.4mm

% The above specifications are subject to change without prior notice for product improvement.

3 Before Use

3.1 Parts list

The package of ALLUX[™] contains the following parts. Confirm whether everything is included.

[Main body and accessories]

ALLUX™ NE-Z41	Û	Backup battery holder NE-SC01	þ
Instruction Manual 81-SS00125		User's Guide 81-SS00126	This Document
Bluetooth password and unit number 81-SS00133	<u> </u>	Information as to Periodic Inspection 81-SS00135	A Second and a sec

% For screw heads, 81-SS00062 Knee Release Adapter Instruction Manual will be added.

[Designated devices]

Charging port cap NE-CC01	Power OFF cap NE-CC02	
Backup battery pac NE-SB01	Extension cable NE-CL02	5
Battery charger NE-BC01	AC adapter NE-AD01	
Plug adapter (UL) NE-PAXX	Backup battery charging cable NE-CL01	

% The shape of the plug depends on the form ordered.

% Backup battery pac may not be included depending on the form ordered.

NOTICE

■Do not use non-designated peripheral devices. That might cause a crash of ALLUX[™].

4 Safe Posture

4.1 Safe posture and condition ready for communication

'Safe posture' refers to the posture taken in order to change the mode before using the Application Remote Control or communicating with the Application Remote Control. Be sure to understand the following safe postures before using ALLUX[™].

[Safe posture]



the state you stretch your knee straight with ALLUX[™] and may apply your body weight on it.



the state you do not apply your body weight on ALLUX[™] and may bend your knee.



■Do not take the posture in an unstable state. When taking the safe posture without applying the body weight to ALLUX[™], hold a handrail or sit down.

You may lose your balance and fall over.

In order to conserve power, ALLUX[™] is not always in communication mode. Communication mode is activated in ALLUX[™] 5 minutes after lightly bending and extending, or 5 minutes after removing your body weight and then applying it, or 5 minutes after disconnecting the battery charger or power OFF cap from ALLUX[™]. Once ALLUX[™] communication is established, this state lasts until communication is disconnected.



When you board an airplane or other such vehicles and need to turn off the wireless function of ALLUXTM, you can use the Application Remote Control to turn it off. To reactivate the wireless function again after that state, follow the procedure provided below. To reactivate the wireless function again after that state, follow the procedure provided below. ①Remove the battery charger or the power source OFF cap from ALLUXTM.

②In the case, loads are applied intermittently on the toe or heel four times (this operation can be changed on the smartphone).

A vibration will occur to tell the reactivation of the wireless function when operation (2) is performed.

(((((()))))) 2_{sec} :reactivates the wireless function.

Note that this vibration occurs if operation 2 is performed even when the wireless function is active. (Up to firmware version 50.38)



5.1 ALLUX[™] operational modes

ALLUX[™] has five operational modes.

1.Normal mode 2.Flexion angle limit mode 3.Variable selective flexion lock mode 4.Full extension lock mode 5.Free swing mode

Use the Application Remote Control to change the operational modes. The optional buttons on the Application Remote Control can be customized as appropriate. Please consult your prosthetist.

5.2 Application Remote Control

Install the Application Remote Control of smartphone.

●ALLUX[™] supports the following operating systems (OS):

Android:7 or later

(There is no guarantee that it will work on every Android device.) iOS :13 or later

The installation and adjustment methods vary depend on the OS. Download the manual corresponding to the OS from the website below

and follow the instructions.

Website for downloading the Application Remote Control Manual: https://mobilityassist.nabtesco.com/app_info/



😵 Bluetooth°

Precautions on Bluetooth

Radio waves emitted by a Bluetooth device may affect the operation of electronic devices and other devices.

Turn off Bluetooth devices when near priority seats in trains, in areas where flammable gas is generated such as in airplanes, near automatic doors and fire alarm devices, as it may cause an accident.

We do not take any responsibility for the leakage of information when using Bluetooth technology.

This product does not guarantee wireless connection with all Bluetooth devices. The Bluetooth device to be connected must comply with the Bluetooth standard specified by Bluetooth SIG and must have obtained at least a certification. In addition, even if the device to be connected complies with the Bluetooth standard, phenomena such as inability to connect or different display/operation may occur, depending on the characteristics and specifications of the device.

Do not disassemble or modify this product as the wireless functionality of this product has been certified to meet technical standards.

5.3 Operation with the Application Remote Control

The operational mode can be selected with the Application Remote Control of smartphone, etc.

To change modes, tap the button on the Application Remote Control within 5 minutes of bending and stretching your knee or removing your body weight and then applying it while standing in safe posture.

Press the '1' button on the Application Remote Control to return to normal mode.



If using a smartphone, be careful to prevent buttons etc from incorrect operation.

Unintentional switching of the mode could result in falling over.

- *A vibratory alert will occur when the mode is switched. If an unintentional vibratory alert occurs then ensure to verify whether incorrect operation of the Application Remote Control has occurred.
 - Please do not use the Application Remote Control anywhere radio waves are prohibited, for example aircraft etc.

NOTICE

- ■Connecting and disconnecting the battery charger and power off cap will result in ALLUX[™] returning to the normal mode set using the '1' button on the Application Remote Control. Please exercise caution as the status may differ before and after charging.
- Assume safe posture. (See 4. Safe posture)
- Tap buttons 1-5 on the Application Remote Control.
- Then a pop-up will appear. Select "OK".

😡 vibration will sound for 2 seconds.

The selected mode is applied.



Operational Modes

①Normal mode: normal walking --- button 1 or optional button

②Flexion angle limit mode: lock ALLUX[™] at a designated angle --- optional button
 ③Variable selective flexion lock mode: lock ALLUX[™] at the angle designated by the Application Remote Control --- optional button

④Full extension lock mode: lock ALLUX[™] at the fully extended position --- optional button ⑤Free swing mode: maintain the least resistance against flexion and extension --- optional button



■After a mode change, move ALLUX[™] to check the behavior. If the mode has not been changed to the intended one due to a wrong button operation, an accident such as a fall may occur.

5.4 Normal Mode

5.4.1 Overview

The normal mode is adjusted for normal walking. Judging various walking situations and normal motions with the sensor, ALLUXTM automatically adjusts the flexion or extension resistance.

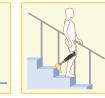
5.4.2 Yield Function

In the following situations, ALLUX[™] yields, increasing flexion resistance and allowing knees to bend slowly.









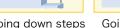
Standing



Standing up







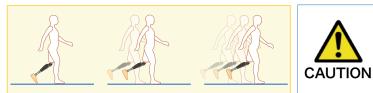
Going downhill



Hold onto the handrail while getting down the stairs. An intended behavior of the product may cause a fall.

5.4.3 Walking speed auto-adjust function

ALLUX[™] automatically adjusts the flexion and extension resistance according to walking speed.



Check the setting in a safe place, such as in between parallel bars. An inappropriate adjustment may produce bad timing.

5.4.4 Seated position

When in a seated position, ALLUX[™] maintains no resistance in flexion or extension.





When standing up from a seated position, put your weight on the side with the prosthesis.

A free state continues, which may cause a knee to bend.

5.4.5 Safety lock

When under a burden and knees are bent continually for a few seconds, ALLUX[™] locks the flexion resistance at a certain angle. (This function can be turned off or the sensitivity can be adjusted.)



During a safety lock, keep putting weight on ALLUX™. The lock may be released, causing ALLUX[™] to bend.

5.4.6 Bicycle

When riding a bicycle with ALLUX[™], lower the Stance Resistance value to a low setting to allow it to easily flex.



If riding a bicycle is more comfortable in "Free mode", make sure the user is able to stand using their sound side while in the riding position. Make sure they are aware that if the prosthesis is used to stand, while stopping there will be no microprocessor stumble recovery or highresistance to prevent the knee from bucking and the user may fall.

5.5 Flexion angle limit mode

In flexion angle limit mode, flexion resistance is locked at a designated angle while extension resistance remains free.





■Bend ALLUX[™] to the lock angle swiftly; do not stop in the middle. ALLUX[™] may be damaged.

5.6 Variable selective flexion lock mode

ALLUX[™] remembers the angle at which variable selective flexion lock mode is turned on. Flexion resistance is locked when it reaches that angle while extension resistance remains free.



NOTICE

■Bend ALLUXTM to the lock angle swiftly; do not stop in the middle. ALLUXTM may be damaged.

5.7 Full extension lock mode

Knees are locked in a fully extended state. To change modes using the Application Remote Control once locked, put your weight on ALLUX[™] and then remove it.



5.8 Free swing mode

In free swing mode, $\mathsf{ALLUX^{\text{TM}}}$ is kept free.



6

States of ALLUX[™]

6.1 States of ALLUX[™]

ALLUX[™] has charging mode, backup battery pac connecting mode, high-temperature mode, battery empty mode. When the mode is changed, the vibration will notice the user about the mode change and you can test the vibration patterns while adjusting the mode. The internal power supply of ALLUX[™] was designed to last for 4 days and the number of steps taken by the prosthesis is 5000/day. When the remaining battery time is less than 3 hours, an alert will be given by vibration. If the backup battery pac is connected at this time, ALLUX[™] can be used for one day. The backup battery pac is used to supplement the internal power supply. It cannot charge the internal battery. It is recommended to charge ALLUX[™] every day depending on the amount of activity of the user. (For the charging procedures, see 7. "Charging procedures.")

The internal power supply has three modes: normal mode (where there are 3 or more hours of battery life), a mode in which less than three hours of battery life remain, and a mode in which ALLUX[™] cannot be used without charging. If the internal power supply is exhausted ALLUX[™] cannot be used without charging, the user cannot use ALLUX[™] even if the backup battery pac is connected. In the mode in which the battery is exhausted, there will be a high yielding resistance or a free resistance to the flexion motion based on choice during adjustment. Please consult your prosthetist.

WARNING	 If the vibration request for safe posture activates during normal use, the user must be in safe posture. Flexion/extension resistance may suddenly change, leading to a fall. If the vibration does not activate when the battery charger is disconnected, discontinue use, and contact your prosthetist. The vibrator may be defective. Cautions and warnings cannot be given. Flexion/extension resistance may suddenly change, leading to a fall.
CAUTION	 Charge the battery every day regardless of the usage of ALLUXTM. Even when not walking the sensors will be on and draining the battery. Please exercise caution as the status may differ before and after charging. Do not routinely exhaust the battery. The vibration notification will not unavailable, flexion/extension resistance may suddenly change, leading to a fall. When ALLUXTM joint is heated, do not touch any metallic part of its body. Could result in burns. When the vibration for warning about battery exhaustion activates, refrain from using ALLUXTM, and charge the battery. Normal walking will be impossible if the battery runs out during use. When ALLUXTM is used in a low-temperature environment, the flexion and extension resistances may increase. Check the resistances prior to use. Normal walking will not be supported, possibly resulting in a fall. When ALLUXTM is used at a high temperature, the flexion and extension resistances decrease. Use it carefully when walking on stairs or a slope. May not support the weight, possibly resulting in a fall.
NOTICE	 Constant use of the backup battery pac is not recommended. Could hasten battery degradation. * After using the backup battery pac, charge the internal power supply and backup battery pac. * The operational duration time may vary due to the temperature, deterioration, or walking conditions.

6.2 Normal use state

6.2.1 When battery charger or power OFF cap is disconnected

When the battery charger (NE-BC01) or the power OFF cap (NE-CC02) is disconnected, ALLUX[™] will enter the normal usage condition, and the vibration will activate to indicate the residual capacity of the internal power supply of ALLUX[™]. After removing the battery charger and power OFF connector, connect the charging port cap (NE-CC01).
Disconnect the battery charger or the power OFF cap. When the vibration does not sound as below, connect the battery charger or the power OFF cap and disconnect it again.



Connect the Charging port cap.



■After disconnecting the battery charger, connect the charging port cap. (NE-CC01). If the cap is not used and the connector terminal comes into contact with water or another liquid, ALLUXTM may malfunction and enter the charge mode, and you cannot walk and may be stranded in a dangerous place.

6.2.2 When power is turned off for charging

The power supply turns off when the battery charger or power off cap are connected. • Connect the battery charger

(((((((()))))))) **2**sec



Do not walk with the power OFF cap (NE-CC02) connected. Walking control ceases and thus if you attempt to use the unit while connected it could impair the walking process and result in a fall.

Charging port cap NE-CC01	
Power OFF cap NE-CC02	

6.2.3 Use of backup battery pac

When the internal battery capacity allows for less than 3 hours of walking, the warning vibration will be activated. When the battery is exhausted, the control of ALLUX[™] will be stopped. Connecting the backup battery pac (NE-SB01) before the internal battery runs out enables the user to use ALLUX[™] continuously for one day.

()) ()) ()) ()) ()) ()) ()) ()) 0.5sec×8times

Remove the Charging port cap.

- ●Fit the backup battery holder (NE-SC01) containing the backup battery pac on the body of ALLUX[™] or the lower leg side of the armoring, such as the foam cover, and secure it with the Velcro tape.
- ■Connect the backup battery pac to ALLUX[™].

* ALLUX[™] will enter the normal mode stated in 6.2.1, and the vibration for confirmation of backup battery pac capacity will sound.

00000000	0.25sec×8times	:3hours or more
	0.5sec×8times	:Less than 3hours
	0.75 0	
	0.75sec8times+(4sec	INO MORE Walk

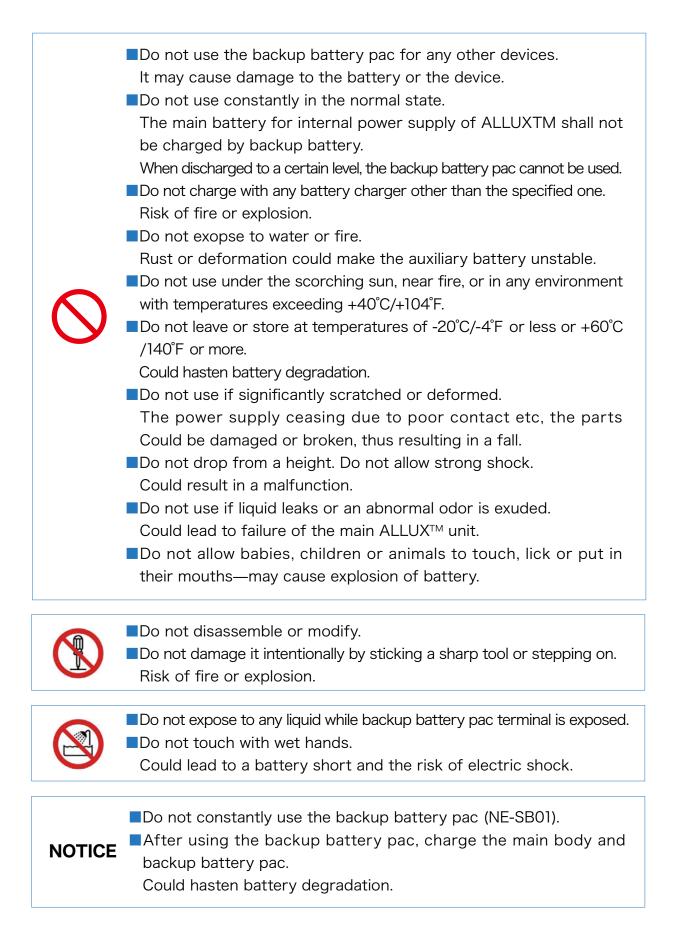
- * The backup battery pac must be charged.
 - Connect the backup battery pac in a state where the safe posture can be ensured.
 - Flexion/extension resistance may suddenly change, leading to a fall.
 - ■Do not secure the backup battery holder on the thigh side (above ALLUXTM).
 - The cable may be caught between knee joint parts or damaged during flexing action, and an excessive load may be applied to the connector, thereby disconnecting the cable.
 - ■Secure the backup battery holder on a side of ALLUX[™] body(Frame). The socket and backup battery pac may get into contact at the maximum flexion angle, and the backup battery pac may be damaged.



5	, I	J 1 J
	Attach backup battery pac and the cable carefully so as not to get it caught when ALLUX™ is flexed.	

Do not insert or remove the backup battery pac while walking as it may lead to a fall.

* If the cable is disconnected or the battery is damaged during walking, the user cannot walk normally and may fall.



[Specifications for backup battery pac]

Service temperature: 0°C/+32°F to +40°C/+104°F

■Resistance to ambient temperature: -20°C/-4°F to +60°C/+140°F

Resistance to ambient humidity: 10 to 90%RH

Battery charger: NE-BC01

- ■Applicable device: ALLUX[™] (NE-Z41 or NE-Z41SH)
- Service life: 1 year

NE-SB01



6.2.4 Battery exhaustion (zero battery)

When the internal power supply has exhausted and ALLUX[™] cannot be used, the warning about battery exhaustion will be given by vibration. Then, the vibration for request for safe posture will be given. When the user takes the safe posture, the walking control will be stopped, and ALLUX[™] will be locked (yielding resistance with high flexion resistance) or free based on choice during adjustment. In this case, ALLUX[™] can be used continuously for one day by connecting the backup battery pac (NE-SB01). (For the specifications for the backup battery pac, see 6.2.3) ALLUX[™] will be recovered from this state by charging.



When the vibration indicating the battery exhaustion or requiring the safe posture sounds, the user must stand in a safe posture immediately.

Even if the user is not in safe posture after 1 minute of warning vibration,ALLUX[™] will be forcibly locked or free even while the user is walking and may result in a fall.

(((())))	(((())))	(((())))	

$\textcircled{\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\textcircled{\label{eq:constraint}}$	$\textcircled{\begin{subarray}{c} (0) \\ $
0	$\overline{0}$	0000
0	0	0
0	0	0

0.75sec8times+(4sec):No more walk

0.5 * 3times×15times: Request for safe posture

⇒ALLUX[™] will be locked even if the user is not in the safe posture after the completion of vibration for 1 minute.

The user must take the safe posture.

●ALLUX[™] will be locked in the flexed state (at a high yielding resistance).

When the 'free' low battery setting is selected, the knee flexion becomes free. Please ask your prosthetist.

Connect the backup battery pac to ALLUX[™]. (For the cautions for use of the backup battery pac, see 6.2.3.)

* ALLUXTM will enter the normal mode stated in 6.2.1, and the vibration for confirmation of backup battery pac capacity will sound.

* The backup battery pac must be charged.

[When the backup battery pac is not available or the user goes back home] ●Charge ALLUX[™]. (See 7 "Charging procedures.")

6.2.5 In high-temperature state

If the yielding function is continuously used for a long time, ALLUX[™] may be heated to a high temperature. When the temperature of ALLUX[™] rises, the vibration for warning about increasing temperature will sound at first. In this state, the user can walk. If ALLUX[™] is used continuously, the vibration for alerting the user to stop using due to high temperature will be given. When the user takes the safe posture, ALLUX[™] will be locked (yielding resistance with high flexion resistance). After the temperature drops, ALLUX[™] can be used again. ALLUX[™] will be recovered from this state by charging.



■The user must stop walking with the yielding function or take a rest and stay still until ALLUXTM cools down in accordance with the high-temperature warning vibration.

The user must move to a place where he/she can stop walking safely and take the safe posture within 1 minute in accordance with the vibration for alerting to stop using.

Flexion/extension resistance may suddenly change, leading to a fall. * ALLUX[™] cannot be unlocked (released from high yielding resistance) until its temperature drops.



Do not touch any metallic part of the prosthesis knee joint. Could result in burns.

[When the temperature is increasing]

* Stop walking with the yielding function or take a rest and stay still until ALLUX[™] cools down.

[When the temperature has abnormally increased]

Take the safe posture.

●ALLUX[™] will be locked in the flexed state(at a high yielding resistance).

[When ALLUX[™] cools down]

000 000 000 000 0.5 * 3 times × 15 times : Request for safe posture

 \Rightarrow ALLUXTM will be restored to the normal state even if the user is not in the safe posture after the completion of vibration for 1 minute.

•The vibration for confirmation of battery capacity will sound.

 0
 0
 0
 0
 0
 0
 0.25sec×8times
 :3hours or more

 0
 0
 0
 0
 0
 0
 0.5sec×8times
 :Less than 3hours

* When ALLUXTM is released from the high-temperature state, it has not cooled down completely. Therefore, if the user continues to walk with the yielding function in the same manner, ALLUXTM will be immediately locked by the high temperature. The user is recommended to take a rest for 10 to 20 minutes until ALLUXTM sufficiently cools down.

6.3 In case of malfunction

If a malfunction occurs in a sensor in ALLUX[™] and it cannot serve as a knee joint, the vibration for warning about malfunction will sound, and ALLUX[™] will be locked (yielding resistance with high flexion resistance). No vibration may sound, or ALLUX[™] may not be locked depending on the malfunctioning part.



If ALLUX[™] is defective, the user cannot walk normally.
 If the vibration for warning about malfunction sounds, immediately discontinue the use, and contact your prosthetist. Normal walking will not be supported, possibly resulting in a fall.



●ALLUX™ will be locked (at a high yielding resistance).

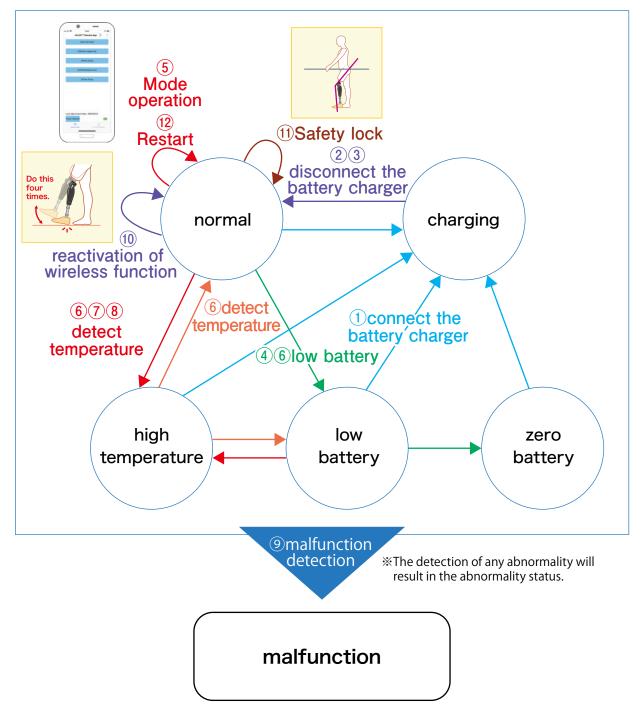
6.4 Vibration alert pattern chart

	Vibration alert	Alert conditions	Meaning
1	((((((,)))))) 2sec	When the battery charger or Power OFF cap is connected	Control of ALLUX™ has been stopped.
2	0 0 0 0 0 0 0 0 0 0.25sec × 8times	When the battery charger or Power OFF cap are disconnected	The battery level supports at least 3 hours
3	0 0 0 0 0 0 0 0 0 0.5sec × 8times	When the battery charger or Power OFF cap are disconnected	The battery level supports less than 3 hours
4	((()))))))))))))))))))))))))))))))))))	When the battery charger or Power OFF cap are disconnected	Normal walking is not currently supported due to battery level ^{**1} being insufficient. Please connect an auxiliary battery or recharge it.
5	Contraction (Contraction)	Operational mode changed via Application Remote Control(See 5.3)	ALLUX™ mode change has been completed using the Application Remote Control.
6) 6) 6)	000 000 000 000 000 000 000 000 000 000 000 000 0.5sec * 3times × 15times	Low remaining battery High temperature state Recovering from abnormally high temperature When the control of the hydraulic cylinder becomes temporarily unstable	Status requiring a safe posture. If this status continues ensure to contact your prosthetist as a malfunction may have occurred.
7	4 sec * 2 times with 30 sec interval	When the main ALLUX™ unit is becoming abnormally hot	The main ALLUX ™ unit is becoming abnormally hot. However, normal walking can still continue.
8	International Contraction International Contraction International Contraction International Contraction International Contraction International Contraction Asec * 4times+10sec	When the main ALLUX™ unit has become abnormally hot	Normal walking is not currently supported by ALLUX™ and will not return until the temperature has dropped. Please wait until normal status has been achieved, as indicated by vibration pattern ⓒ.
9	00000000000000000000000000000000000000	When the main ALLUX™ unit has been malfunctioned	The status of ALLUX [™] is abnormal and normal walking is not supported. The abnormal status could be resolved by inserting/removing the battery charger or power off cap. If this does not solve the problem then please ensure to contact your prosthetist.
10	2sec	When the load is intermittently applied to the toe or heel four times	The wireless function of ALLUX [™] has been reactivated.
11	0.5sec × 1times	Safety lock	The safety lock is being activated.
(12)	0000000 0.25sec × 8times	When you press the restart button of the Adjustment App or the Application Remote Control	Reboot ALLUX™.

*1: Remaining battery refers to the remaining capacity of ALLUX[™] main battery or the backup battery pac. Only a guide as it can vary with the usage conditions.
*2: If no vibratory notification occurs when the battery charger or power supply off connector is removed then an abnormality main battery bars around the part of the backup battery bars.

- may have occurred. *3: If another notification condition is met while the alert is set to vibration mode, the vibration may be switched on.

The figure below provides the different types of ALLUX[™] status and the transitionary vibration notification patterns.



%No.1-12 correspond to numbers in the vibration alert pattern chart (6.4).

7.1 Charging ALLUX™

The internal power supply of ALLUX[™] and backup battery pac shall be charged with the special battery charger (NE-BC01). When using ALLUX[™], it is recommended to charge it every day as a rule.



Remove the prosthesis before charging.

If the vibration does not sound when the battery charger is disconnected, discontinue use, and contact the prosthesis manufacturer. The vibration may be defective. Cautions and warnings cannot be given. Flexion/extension resistance may suddenly change, leading to a fall.

- ■Do not use for any purpose other than charging ALLUX[™].
- Do not connect any adapter other than the supplied AC adapter to the battery charger.
- Do not use the AC adapter for any other electronic devices.
- Do not charge outdoors.
- Do not drop from a height. Do not give a strong shock.
- Do not leave or store at a temperature of -10°C/+14°F or less or +60°C /+140°F or more.
- Charge indoors in a temperature range from 0°C/+32°F to +40°C/+104°F.
 Do not pull the connector cable with a force of 30 N (3 kgf) or more.
 Do not charge from a car (cigar plug cord).
- After charging, do not use without the Charging port cap (NE-CC01).
 Do not put any conductive body, such as metallic parts, to the connector terminal of ALLUXTM.

Failing to follow the above could cause the battery charger to malfunction or result in the risk of fire.



Do not disassemble or modify. Could result in a malfunction.



Do not pour any liquid, such as water.

- Do not touch with wet hands.
 - Could lead to a battery short and the risk of electric shock.

7.1.1 Specifications for battery charger and AC adapter

- Service temperature: 0°C/+32°F to +40°C/+104°F
- Resistance to ambient temperature: -10°C/+14°F to +60°C/+140°F
- Resistance to ambient humidity: 10 to 90%RH (non condensing)
- ■Input voltage: 12 V ■Input current: Max. 1 A
- AC adapter: NE-AD01 (Input voltage: 100 V to 240 V)

7.1.2 Charging procedure

Connect the battery charger (NE-BC01) and AC adapter (NE-AD01) to charge from an indoor household power supply outlet. Although the charging time depends on the residual battery capacity, the battery will be fully charged after about 3 hours. Four types of plug adapters are available for the AC adapter. In Japan, use the type A (NE-PAXX). The type C (NE-PA02), type BF (NE-PA03) and type O (NE-PA04) can be supplied to each contries in accordance with the proper configulation.

Fit the plug adapter (type A) to the AC adapter as shown in the following figure.

- * When they are fitted normally, a snap will be heard.
- * To remove the adapter, slide it while pressing the center pawls.



Connect the battery charger and AC adapter.

Insert the plug adapter of the AC adapter to a commercial power supply.

* For connection to a supply not in the U.S.A., use an attachment plug adaptor of the proper configuration for the power outlet, if needed.

 Do not charge if the plug adapter is not fitted correctly.
 Do not use any adapter other than the supplied plug adapter. Could result in a malfunction.



■Remove the Charging port cap (NE-CC01) of ALLUX[™].

Remove it sliding the connector cover lever in the arrow direction.

- ■Connect the battery charger connector to the connector terminal of ALLUX[™] while sliding along the guide from outside the frame.
 - * If you try to connect from an angle, the pins of the connector terminal will be bent and charging will not be possible.



The vibration will sound continuously for 2 seconds.









Connector cover

Connector terminal

Battery charger connector

- •The LED lamp on the battery charger will light on in orange.
 - * If the temperature of ALLUX[™] is higher than +40°C/+104°F just after ALLUX[™] is used, the green LED lamp will flash.
- •When charging is completed after a certain time, the LED lamp will turn green.
 - * If ALLUX[™] is left for a long time after the completion of charging and the battery capacity becomes lower than a certain level, the battery will be recharged.
- Remove the battery charger connector.
 - Slide the lever on the charger connector to right to unlock and remove it.
 - * The charger connector may be damaged if the charger cable is disconnected without unlocking.
 - The vibration described on 6.2.1 sounds.
 - * If the vibration for insufficient battery capacity sounds although the battery has been fully charged, the lithium ion battery may have deteriorated. Contact your prosthetist.
- Fit the charging port cap.

Remove the AC adapter from the commercial power supply.

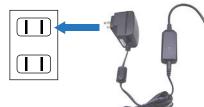
Make sure that the vibration sounds when the charging connector is disconnected.

NOTICE Contact us if the vibration does not sound. The vibration notification will not unavailable, flexion/extension

resistance may suddenly change, leading to a fall.

7.1.3 Charging the backup battery pac

Charge the backup battery pac in the same manner as when charging the main body of ALLUXTM. Connect the charging cable for backup battery (NE-CL01) to the battery charger connector, and connect to the backup battery pac. Connect the backup battery charging cable to the



- battery charger and AC adapter stated in 7.1.2.
- Insert the plug adapter of the AC adapter to a commercial power supply.

Connect the backup battery pac to the backup battery charging cable.

- The LED lamp on the battery charger will light on in orange.
 - * If the temperature of ALLUX[™] is higher than +40°C/+104°F just after ALLUX[™] is used, it will enter the charge standby state. The battery will be automatically charged when it cools down.

•When charging is completed after a certain time, the LED lamp will turn green.

- * If ALLUX[™] is left for a long time after the completion of charging and the battery capacity becomes lower than a certain level, the battery will be recharged.
- Remove the backup battery pac from the backup battery charging cable.

Remove the AC adapter from the commercial power supply.

Do not leave the AC adapter plugged into the commercial power supply when it is not used for charging.

- The AC adaptor may overheat or catch fire.
- **NOTICE** Keep children and infants away while the AC adaptor is connected to the commercial power supply. There is a risk of electric shock.

7.1.4 Indication by LED lamp on battery charger

The LED lamp on the battery charger has four modes. When it does not light up, recheck the connection referring to 7.1.2 If the LED lamp still does not light up, the battery charger or the AC adapter may be defective. Contact us.

- ON (Orange) : During charging The charger is normally working.
 - ON (Green) : Completion of charging

Flashing (Orange) : Charging error

of charging The battery has been charged fully.

Flashing (Green) : Waiting until charging Waiting until the heated battery cools down.

LED lamp on battery charger



Backup battery charging cable

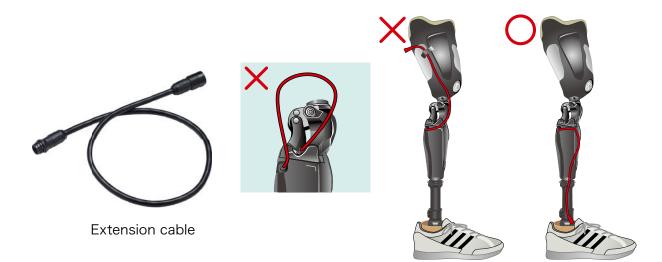
The charger cannot charge owing to a failure.



7.1.5 Use of extension cable

Use an extension cable when ALLUX[™] charging connector is covered with form cover, etc.

Make sure the extension is used on the ankle side. Using it on the socket side may lead to the cable getting caught when ALLUX[™] bends.
 Make sure the cable does not get caught in the socket when using ALLUX[™] at maximum flex.
 Cover the connector of the extension cable when it is not in use. ALLUX[™] may become defective when the terminals are contacted or get wet.



8 Maintenance Parts

The lifetime of the device is 6 years, depending on the activity level of the patient. The actual useful life is ultimately determined by the prosthetist upon request of the device's owner.

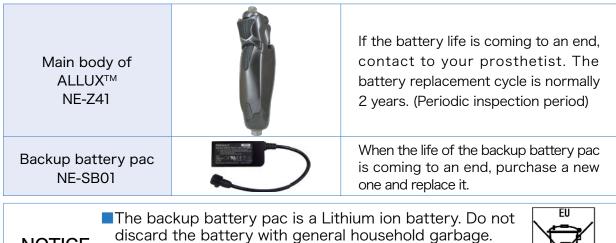
While the device is in use and after the end of the period of use, its functionality and operating condition should be assessed by the prosthetist periodically with a minimum frequency of 2 years.

8.1 List of maintenance parts

During periodic inspection, the following maintenance parts are used. When you want to purchase replacement parts for maintenance or have to questions about maintenance of ALLUX[™],contact your prosthetist. DO NOT undertake any maintenance actions on the device.

NOTICE Do not apply a commonly-sold lubricant. Such lubricant may impede a smooth bending of ALLUXTM.

[Replacement of battery]



NOTICE discard the battery with general household garbage. Thrown away short-circuits of the battery may cause ignition and release of fume.



[Replacement of cover, pad, and stopper]

Consult your prosthetist for replacement. The following parts can be purchased from us. Inquire your prosthetist for replacement.



The following parts can be replaced by us. Send it back to us by your prosthetist.



໑ Troubleshooting

9 Troubleshooting

9.1 Troubleshooting list

Should you encounter any issues in the use of your ALLUX[™], please check the following list. If you are encountering an issue not listed in the below list, please contact your prosthetist.

lssue	Check item	So lution
Your ALLUX [™] wont charge.	ls the battery charger connector/AC adapter securely connected?	Check the connection. (See 7.1.2)
	Does vibration sound when connected to the battery charger?	If the vibration does not sound, it may be defective. Discontinue use, and contact the prosthesis your prosthetist.
	ls ALLUX [™] hot?	Let your unit cool and then recharge it. (See 7.1)
	Any issue not outlined above	Contact your prosthetist.
Unable to change modes with the Application Remote Control.	Are you pressing the button within 5 minutes of flexing and extending ALLUX [™] or removing your body weight and then applying it?	Flex and extend ALLUX [™] or removing your body weight and then applying it? , assume safe posture, and use the Application
	Are you in safe posture when operating via the Application Remote Control?	Remote Control. (See 4.1)
Knee locks, or is in a free state.	Did the vibration sound just before ALLUX [™] locked or went into a free state?	If the unit is hot, please wait until it cools. (See 6.2.5)
	Is the battery capacity is sufficient?	Please charge your unit or connect the backup battery pac. (See 6.2.4)
	Any issue not outlined above	Contact your prosthetist.

9 Troubleshooting

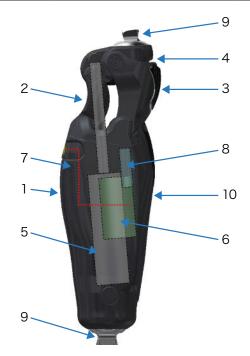
lssue	Check item	Solution
Abnormal noise or weakness in joints.	Check for foreign substances. Are any screws etc. interfering with the knee joint section?	Please remove any foreign matter and ensure that normal movement takes place.
	Does vibration sound when connected to the battery charger?	Please contact your prosthetist.
	Any issue not outlined above	Please contact your prosthetist.
The safety lock cannnot be applied.	Check that you holds ALLUX [™] in a slightly flexed state and apply the weight sufficiently to ALLUX [™] . (When the weight is not applied or ALLUX [™] is flexing or extending even slowly,the lock does not function.)	Hold ALLUX [™] in a sufficiently loaded state.
	In cases other than above	Please contact your prosthetist.
ALLUX [™] is locked and jams when you sit down.	Check that you do not stop flexing ALLUX [™] halfway.	Since the safety lock is effective,it is necessary to sit down without stopping.
	Check that load is not applied to the toe to flex ALLUX [™] after transition to the swing phase.	Since the stumbling lock is effective, it is necessary to sit down without applying load or sit down with the yielding function.
	In cases other than above	Please contact your prosthetist.

10 Disposal

The table below shows the materials of ALLUX[™] knee unit in each component. When disposing of ALLUX[™], comply with the rules stipulated in the local community. If you return it to Nabtesco after giving such a notification,we will dispose of it for you.



	Part name	Classification of material	Remarks
1.	Frame	Plastic	Carbon fiber reinforced composite material. Aluminum structural parts are inserted in it.
2.	Knee links	Metal	Aluminum alloy
3.	Knee pad	Rubber	
4.	Stopper rubber	Rubber	
5.	Hydraulic cylinder	Metal	Body: aluminum alloy, piston rod: titanium alloy, o-ring: rubber,
6.	Microprocessor control board	Electronic component	Electronic substrates and component chips comply with the RoHS directive.
7.	Lead wire	Electric wire	
8.	Battery	Li-ion battery	See 8.1
9.	Joint parts	Metal	Titanium alloy
10.	Cover, etc.	Plastic, rubber	Refer to each material symbol on each.



11 Periodic Inspection

11.1 Periodic Inspection

In ensuring safe use please make sure ALLUX TM has a periodic inspection after 2 years of use. The periodic inspection will be performed free of charge within the warranty period. After the warranty period has expired, the periodic inspection will be performed at the user's expense.

The worn parts (extension stopper rubber and rubber pads) attached to ALLUX[™] will be replaced free of charge if they have deteriorated during the periodic inspection within the warranty period.

When you want to ask us about a periodic inspection ,contact your prosthetist.

■Ensure that ALLUXTM undergoes periodic inspection after 2 years. If it is used without periodic inspection, wear and deterioration may be accelerated, and the warranty may not cover issues or damages.

11.2 How to care

NOTICE

If necessary, wipe the surface with a soft cloth moistened with fresh water.



Make sure that no moisture or lint from the cloth remains after wiping. Rust and lint caught in the knee may cause abnormalities in the rotating part and affect the bending and streching of the knee.

12 Warranty

12.1 Warranty

- The main ALLUX [™] unit is guaranteed for a period of 3 years from the date of purchase (basic contract) and the designated devices described on page 6 a period of 1 year. If failure or damage is caused by inadequacies of design or manufacture of the equipment supplied by us during the warranty period under normal usage, we will repair or replace the relevant part(s).
- 2) The external parts (extension stopper rubber, rubber pads, etc.) supplied with ALLUX[™] are not covered by the warranty.
- 3) The warranty covers only defective items. We will not compensate for various expenses caused by the product failure or other damages.
- 4) In the following cases, the repair will be at the customer's expense even within the warranty period.
 - When failure or damage is caused by handling not conforming to the precautions stated in this document, dropping during use or giving impact not in the normal state of use.
 - When failure or damage is caused by incorrect use or improper modification or repair.
 - When failure or damage is caused by fire, earthquake, wind, flood, seawater, lightning or any other extraordinary natural phenomenon.
 - When failure or damage is caused by use of a device other than those designated by Nabtesco.
 - When failure or damage occurs after the warranty period has expired.
 - When failure or damage is caused by adjustment by a party other than those certified by Nabtesco or the Distributor.
 - When failure or damage is caused by use without periodic inspection.

5) Liability

The manufacture will only assume liability if the product is used in accordance with the descriptions and instructions provided in this document. The manufacturer will not assume liability for damage caused by disregards of this document due to improper use or unauthorized modification, or for accident caused by the amputee's (user's) condition, especially due to the change of physical condition.

6) Resale and transfer of ALLUX™

In thereby ensuring safe after-sales servicing and periodic inspections, and thus overall safety, no reselling or assigning of ALLUX[™], accessories, are permitted.

12.2 Warranty periods of designated devices

The warranty periods of the designated devices used for ALLUX[™], such as the battery charger, are shown in the following table.

Charging port cap NE-CC01	l year	
Power OFF cap NE-CC02	l year	
Backup battery pac NE-SB01	l year	
Extension cable NE-CL02	l year	
Battery charger NE-BC01	1 year	
AC adapter NE-AD01	l year	
Plug adapter (UL) NE-PAXX	l year	
Backup battery charging cable NE-CL01	1 year	
Backup battery holder NE-SC01	l year	Þ



12.3 Repair

- 1) If the cause of defect is unclear, the measures will be determined through consultation between the customer and the Distributor.
- 2) Repair of external painting will be performed at the user's expense. Ask the Distributor for estimation.
- 3) If ALLUX[™] must be repaired after the warranty period has expired, the warranty period only for the repaired part will be extended for 6 months.
- 4) ALLUX[™] which has been used for 6 years after purchase may be unrepairable.

3 Symbols Used

13.1 UDI label (Packing box)



	Legal manufacturer	\sim	Made date
MD	Medical Device	REF	ltem number
SN	Serial number	GΠN	Global Trade Item Number
EC REP	Authorized representation	ve fo	r EU countries
arc two	The maximum and mini storing, transporting,and	mum d usi	temperatures for ng the product.
CE	Declaration of conformity according to the applicable European directives		
(11)	Single patient multiple use		

13.2 Serial number label (Charging port)

Nablesco	PW:XXXXXXX	Ì
NE-Z41 Made in Japan	NO, CQAAAAA	ļ

- PW: Password for Smartphone
- N0, Serial number

13.3 Certification mark label



Declaration of conformity according to the CE applicable European directives

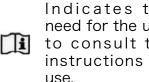
The EU requires recycling without landfill. X When disposing of it, follow the rules of the local government.

MAX, WEIGHT ~K3 (MOB3) 125kg K4 (MOB4) 100kg

Body mass limit not to be exceeded. See page 4

13.4 Battery charger label (Battery charger)





Indicates the need for the user to consult the instructions for use.



Declaration of conformity according to the applicable European directives

The EU requires recycling without landfill. When disposing of it, follow the rules of the local government.



It certifies that this product complies with UL safety standards.

13.5 AC adapter label (AC adapter)



Ē	
9	US 94H
E POWE	E183744 R SUPPLY

It certifies that this product complies with UL safety standards.

- **F** Compliance with the requirements according to FCC
 - Charge it indoors.
- Energy efficiency level 5
- **CB** CB mark (Safety tests based on IEC standards)
- 🙈 RCM mark (Safety standards for Oceania)
- TüV Rheinland has PSE mark (Safety standards for Japan)
 - Double insulation
 - LPS Compliant with LPS standard
- ⊖ C ⊕ DC center plus
- TüV Rheinland has certified GS mark (Safety standards for Germany)
- RoHS Based on RoHS Directive, certain hazardous substances are below the standard value
- CE Declaration of conformity according to the applicable European directives
 - The EU requires recycling without landfill.
 When disposing of it, follow the rules of the local government.

The input is an AC power supply of 47 to 63Hz NPUT:100-240V/--47-63Hz 0.4A at 100 to 240V up to 0.4A.The output is a DC power suppy with a maximum of 1.25A at 12V.

13 Symbols Used

13.6 Backup battery label (Backup battery pac)



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It certifies that this product complies with UL safety standards.



Declaration of conformity according to the applicable European directives



The EU requires recycling without landfill. When disposing of it, follow the rules of the local government.



Indicates the need for the user to consult the instructions for use.



Lithium ion battery

13.7 Backup battery holder label (Backup battery holder)



Shell :95% Nylon 5% polyurethane Filling :100% Polycloroprene (Neoprene®) Lining :100% Nylon

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Wash by hand

Chlorine and oxygen bleach is prohibited

- 🔀 Ironing is prohibited
- 🚫 Dry cleaning is prohibited
- Tumble drying is prohibited

$\mathbf{\Lambda} \mathbf{\Lambda} \mathbf{\Lambda} \mathbf{\Lambda} \mathbf{\Lambda} \mathbf{\Lambda}$

Nabtesco Corporation

Manufacture

Nabtesco Corporation

Accessibility Innovations Company Assistive Products Department 35,Uozakihama-machi,Higashinada-ku KOBE,658-0024,JAPAN Phone: +81-78-413-2724 Fax: +81-78-413-2725 https://mobilityassist.nabtesco.com/

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Authorized representative for EU countries

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CE

Please contact us if you find any page missing or disordered.

Nabtesco

Nabtesco Corporation