# ARJOHUNTLEIGH GETINGE GROUP

## Voyager Instructions for Use



# CE

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...with people in mind

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# General Information

Thank you for buying the Voyager® portable lift from ArjoHuntleigh.

Your Voyager is part of a series of quality products designed specially for home care, nursing homes and other health care uses.

We dedicated are to serving your needs and providing the best products available along with training that will bring your staff maximum benefit from every ArjoHuntleigh product.

Contact us if you have any questions about the use or maintenance of your ArjoHuntleigh product.

# Foreword

Please read this manual in its entirety. The information contained in it is crucial to the proper use and maintenance of the Voyager. It will help protect your product as well as ensure that it performs to your satisfaction.

Lifting and transferring a person always present a potential risk. Some of the information in this manual is important for your safety and must be read and understood to help prevent injuries.

WARNING: Injuries can be attributed to the use of inadequate parts. Use only parts designated by ArjoHuntleigh with you Voyager.

WARNING: Unauthorized changes on any ArjoHuntleigh product may affect its safety. ArjoHuntleigh will not be held responsible for any incidents deficiencies accidents. or of performance that occur as a result of any unauthorized changes to its products.

Tested according to standards by:



## Service and Support

A service routine must be done on your Voyager by ArjoHuntleigh trained service staff. This will ensure the product remains safe and functional. See "Care and Maintenance" section.

Please contact your local ArjoHuntleigh agent if you need more information, want to report an unexpected event or lack of performance, or if you need any help in setting up, using or maintaining your Voyager. The agent can offer support and service programs to maximize the long-term safety, reliability and value of the product.

Contact your local agent for replacement parts.

Additional copies of this manual can be bought from your local ArjoHuntleigh agent. When ordering, include the Instructions for Use part number (see front page) and the product part number.

## Manufacturer Information

This product has been manufactured by:

ArjoHuntleigh AB Verkstadsvägen 5 241 38 Eslöv SWEDEN 2: +46 (0) 10-335 45 00 墨: +46 (0) 413-138 76 Www.ArjoHuntleigh.com

## **Definitions Used in this Manual**

### WARNING:

Means: Failure to understand and follow these instructions may result in injury to yourself and others.

### CAUTION:

Means: Failure to follow these instructions may cause damage to the product.

#### NOTE:

Means: This is important information regarding the correct use of the equipment.

### **Intended Use**

The Voyager is designed for lifting patients in a homecare setting, at nursing homes and other assisted living centers. Patient transfers must be done under the supervision of trained caregivers in accordance with the instructions found in this manual.

The product must only be used for the purposes stated above. It must be installed by ArjoHuntleigh authorized personnel and in accordance with local codes.

### **Operational Life**

The product is designed and tested for a useful life of seven (7) years or 10,000 transfers, whichever comes first. It is subject to preventive maintenance as specified in the "Care and Maintenance" section.

Time equivalence between the number of transfers versus the number of years is made clear in the table in Fig. 1.

| TRANSFERS PER DAY | Years<br>(10,000 transfers) |
|-------------------|-----------------------------|
| 4                 | 7                           |
| 6                 | 4.5                         |
| 8                 | 3.5                         |

WARNING: The manufacturer cannot ensure full safety for a portable lift or an accessory of which the life span has been exceeded. Wear may cause the breakage of a part and lead to a patient fall.

The operating life of this product corresponds directly to the safe operating time period before a complete service is required.

Aging of the cassette, frequency of use (transfers per day), the weight of the patient and maintenance frequency are factors that have an impact on the Voyager's life span.

A transfer is defined as the displacement of a patient from one point to another. A transfer cycle includes a lifting and a descending action.

The expected operational life for fabric slings and stretchers is approximately two years from purchase date. The life expectancy only applies if the slings and stretchers have been cleaned, maintained and inspected in accordance with the "Preventive Maintenance Schedule."

The expected life for other consumable products, such as batteries, fuses, lamps, slings, straps and cords is dependent upon the care and usage of the product concerned. Consumables must be maintained in accordance with published *Instructions for Use* and the "Preventive Maintenance Schedule".

### **Product Identification**

The lift's identification number (specification, model, serial number) appears on a silver nameplate affixed on the back of the casing.

### **Package Contents**

Upon receipt of the equipment, verify it against the packing list to ensure it is complete. Inspect it for possible damage due to shipping. If this the case, contact your local ArjoHuntleigh agent.

### How to Use this Manual

WARNING: Do not attempt to use this lift without fully understanding the information contained in this manual. A misuse of this unit may lead to a patient fall and to injuries.

Keep this manual with the lift and refer to it as required.

# **General Information**

# Symbols Used

| General<br>Symbols | Key to symbols  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|
|                    | Points out the date of manufacture and the address of the manufacturer.                                 |  |  |  |  |  |
| CE                 | Points out the products<br>comply with the medical<br>device directive<br>93/42/EEC.                    |  |  |  |  |  |
|                    | Points out the approval of the<br>Canadian Standards<br>Association.                                    |  |  |  |  |  |
| REF                | Is accompanied by the manufacturer's catalogue number.  |  |  |  |  |  |
| SN                 | Is accompanied by the manufacturer's serial number.   |  |  |  |  |  |
| 🌮 🗍 İ              | Refers to the <i>Instructions for</i><br>Use.   |  |  |  |  |  |
| X                  | Points out "separate<br>collection" for all batteries and<br>accumulators as per the<br>WEEE Directive. |  |  |  |  |  |
| <u>}</u>           | Points out a risk of pinching.  |  |  |  |  |  |

| General<br>Symbols | Key to symbols  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|
| Ţ                  | Points out the product must be kept dry.  |  |  |  |  |  |
| SWL                | Represents the maximum load<br>the lifter is rated for safe<br>operation.   |  |  |  |  |  |
|                    | Degree of protection provided<br>by enclosure. N <sub>1</sub> : Ingress of<br>particles, N <sub>2</sub> : Ingress of water. |  |  |  |  |  |
|                    | Direct current.   |  |  |  |  |  |
| $\sim$             | Alternating current.  |  |  |  |  |  |
| <b>İ</b>           | Points out a type BF applied part.  |  |  |  |  |  |

| Charger<br>Related<br>Symbol | Key to symbol  |
|------------------------------|--|
|                              | Points out a class II electrical<br>equipment: term referring to<br>electrical equipment in which<br>protection against electric<br>shock does not rely on basic<br>insulation only. |

# **General Instructions**

WARNING: The Voyager lift is for transferring patients only. Do not use the lift for any other purpose. Failure to do so may result in injuries to you or to others.

CAUTION: Do not drop the ceiling lift. This could cause internal damage that is not easily seen. If the ceiling lift is suspected to be damaged, contact your local ArjoHuntleigh agent.

WARNING: Always place the sling around the patient according to the instructions found therein. Failure to do so may result in injuries to you or to others.

NOTE: ArjoHuntleigh portable lifts are specifically designed for *KWIKtrak* rail system and ArjoHuntleigh slings and accessories.

# Addendum for Rail Systems other than *KWIKtrak*™

ArjoHuntleigh offers a series of adapted accessories. This lift could also be used with a rail system other than *KWIKtrak*. If this is the case, an addendum is supplied with the adapted accessory. This document provides important information relative to:

- Rail system limitations;
- Descriptions of specific parts.

WARNING: Before using the Voyager with a rail system other than *KWIKtrak*, make sure you have read and understood the addendum supplied with the adapted accessory.

## Safe Working Load

The Voyager has been designed with a lifting capacity of 200 kg (440 lb).

WARNING: The Voyager is intended to be used for patients whose weight is within a specified safe working load. Do not attempt to lift more than the lowest weight limit indicated on the following:

- the rail system;
- the "maximum load" label on the lift;
- on the accessories;
- on the sling.

Surcharge of any of these elements may lead to a patient fall and to injuries.

### **Important Safety Directions**

#### Always ensure that:

- The portable lift was installed by an approved ArjoHuntleigh contractor or installer.
- The product is used by trained caregivers.

WARNING: Before attempting a transfer, a clinical assessment of the patient's suitability for transfer should be carried out by a qualified health professional. A transfer conducted when it should not can degrade the patient's health condition.

- Special consideration is taken when transferring a patient who is connected to electrodes, catheters or other medical devices.
- Violent impact during transfers is avoided.
- The sling is not damaged, torn or frayed and the straps are in good condition and properly fastened.
- The lifting steps found in this manual are followed.
- All controls and safety features are used only according to the rules found in this manual. Never attempt to force a control or button on the lift.
- The charger is not stored in a shower, bath or other areas with high humidity.
- Any precautionary or instruction labels are read and those that cannot be easily read are replaced.
- The daily maintenance is carried out before using the lift.

WARNING: ArjoHuntleigh warns of possible strangulation risks related to the lifting strap or the hand control cable. Take necessary precautions to prevent these.

WARNING: This product contains small parts that might present a choking danger to children if swallowed or inhaled.

CAUTION: Keep all components of the lift clean and dry.

CAUTION: Excessive exposure of the hand control to water (or other liquid) could cause malfunction of the device.

## **Shock Prevention**

- Do not touch or use a lift with bare conductors or a damaged power cord. If this is the case, contact your local ArjoHuntleigh agent immediately.
- Do not splash or expose the device to water or moisture.
- Check nameplate for input voltage and frequency requirements. These ones differ by country. Do not attempt to use the lift in an area that has a different voltage and frequency requirement.
- Read batteries and charger instructions carefully before using or storing them.

## **Fire and Explosion Prevention**

- Do not place or store the battery under direct sunlight or near a heat source.
- Do not expose the batteries to flames. They might open, causing a chemical leak.
- Do not use the charger in the presence of flammable anaesthetic gases. The charger might generate a spark, which could cause an implosion.
- Do not short circuit the battery terminals.

## Human and Environmental Safety Practices

- 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.
- For recycling and disposal of the batteries, the rules according to the WEEE directive (Waste of Electronic and Electrical Equipment) as well as local laws and regulations must be followed. If not they may explode, leak and cause personal injury. When returning batteries, insulate their terminals with adhesive tape. Otherwise, the residual electricity in used batteries may cause fire or explosion. When disposing of any items associated with the equipment, contact the appropriate local authorities for information. Fig. 2 shows the symbols for disposal and recycling.



## **Environmental Advice**

When disposing of any items associated with the equipment, contact the appropriate local authorities for information.

# Battery and Battery Charger Safety Practices

NOTE: Following the instructions is important to prolong the battery life.

Only use batteries designed for use with the device. If unsure, do not use the battery. Make sure it belongs to the device by comparing the battery label with the technical specifications in the *Instructions for Use*. If battery type cannot be confirmed, call your ArjoHuntleigh agent.

- Do not expose the battery or chargers to flames.
- To avoid bodily injury, do not crush, puncture, open, dismantle or otherwise mechanically interfere with the battery.
- Stop using the battery if any damage or deformation is noted.
- Be careful not to drop the battery.
- Only use the charger that has been supplied with the product.
- Do not charge the battery in an unventilated area.
- The charger must not be covered or exposed to dust.
- The charger is designed for dry areas only and for normal air humidity conditions.

### Homecare Environment Considerations

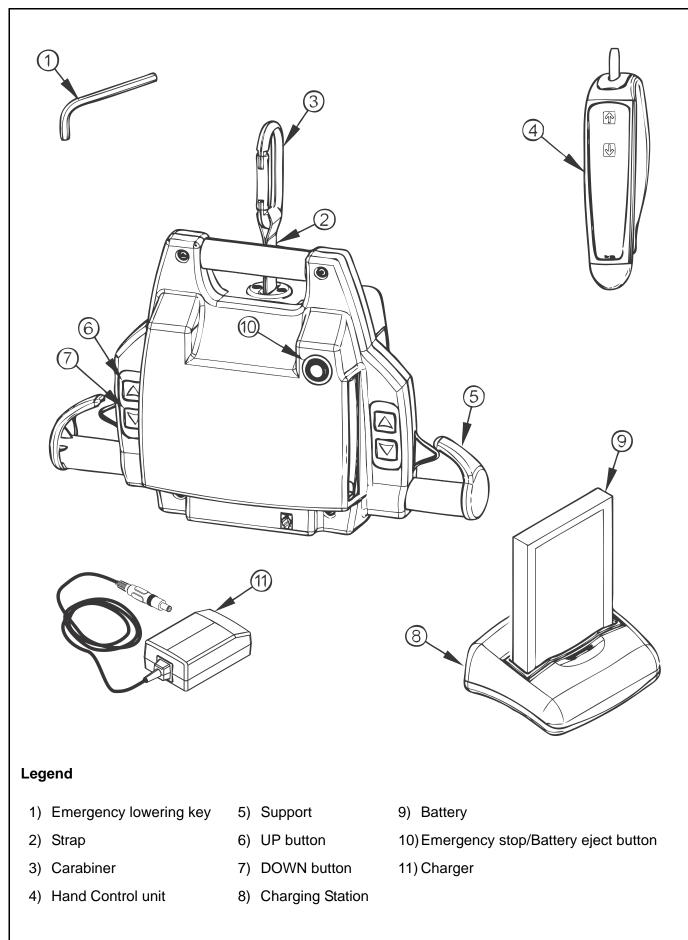
WARNING: The Voyager is not intended to be operated by children. Serious injuries could occur.

NOTE: Rigorous cleaning actions should be done when the Voyager is exposed to an animal. Pet hair trapped inside the device (through the strap opening) can reduce the product performance.

Fig. 2

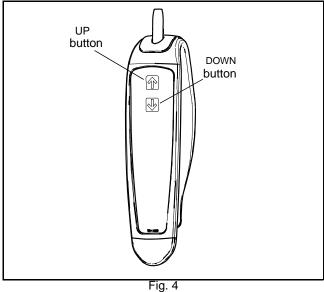
# **Parts Designation**

# **Voyager Portable Lift and Charging Station**

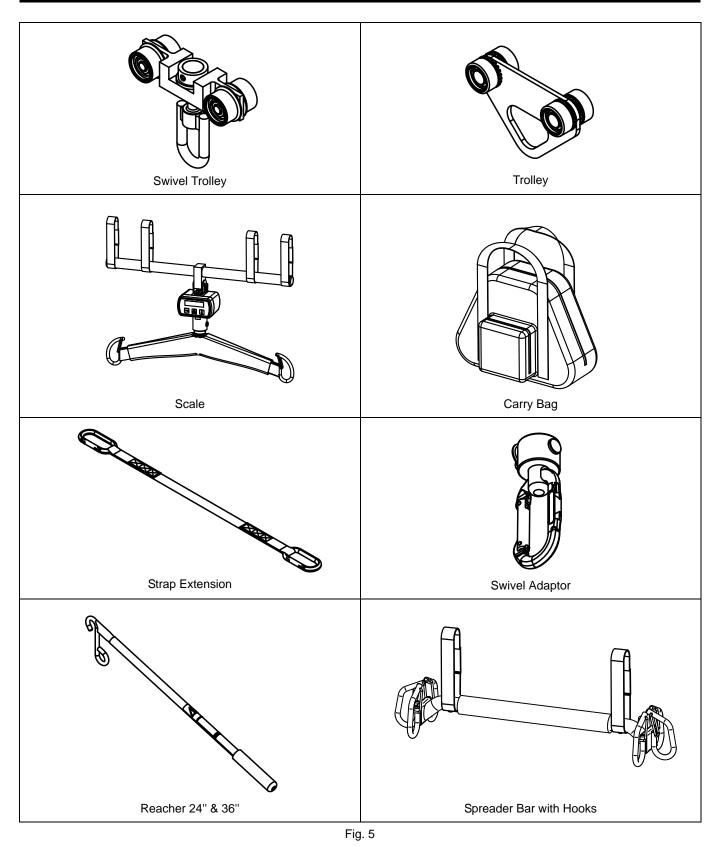


# Hand Control

The Voyager's hand control is used to operate the portable lift. Each function is described in Fig. 4. The up and down buttons raise or lower the lift.



# Accessories



Refer to your local ArjoHuntleigh agent for ordering.

WARNING: All trolleys are not compatible with all rail systems. Please contact your local ArjoHuntleigh agent to get more information.

# Slings

## **Compatible Slings**

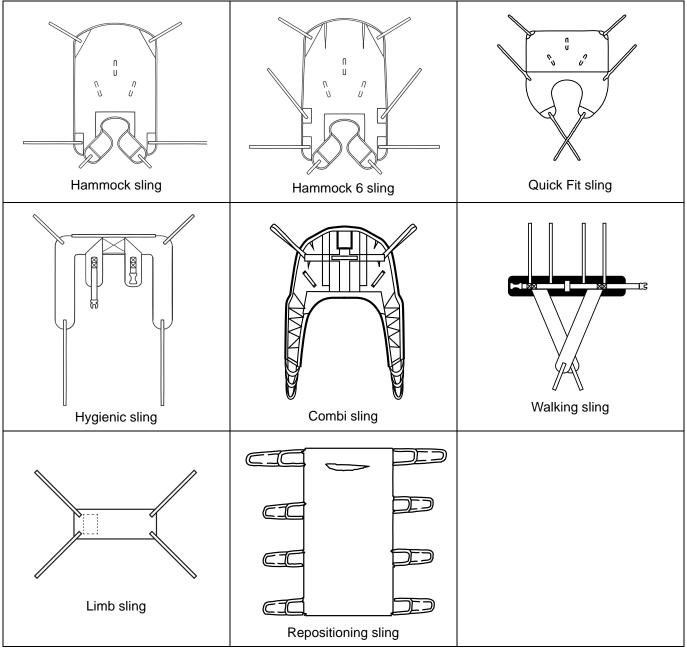
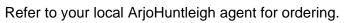


Fig. 6



WARNING: All rails must be closed with end stoppers or connected to other closed rail components. Before use, make sure all end stoppers are in place and secured. A wrong installation of these items might lead to a patient fall and to injuries.

WARNING: The lift must never be operated by the patient. In the unlikely case of a failure, the patient might get stuck in the unit.

# **Use of Slings**

The two-sling supports can accommodate any of the ArjoHuntleigh loop attachment slings.

All slings are color coded for size by having a different colored edge binding or attachment strap coloring:

- Grey or Teal Extra Extra Small XXS
- White or Brown Extra Small XS
- Red Small S
- Yellow Medium M
- Green Large L
- Blue Extra Large XL
- Terracotta Extra Extra Large XXL

ArjoHuntleigh offers the option of a headrest for many slings if it is considered necessary for a particular patient. A range of special purpose slings are available as accessories. For these or for special size slings, contact your ArjoHuntleigh agent.

WARNING: When using ArjoHuntleigh *Flites* slings (disposable) with the Voyager, always refer to the ArjoHuntleigh *Flites* operating instructions as well as these instructions before using.

## **Before Approaching the Patient**

Attendants should always tell the patient what they are about to do. Make sure to have on hand a sling that is of the correct model and of adequate size for transfer with the Voyager.

Before performing the transfer, it is important to evaluate the patient's general condition. For example, an agitated patient will require a more specific type of sling.

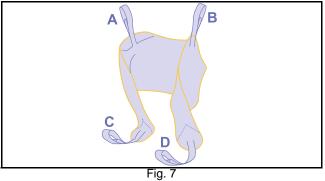
### **Attachment Methods**

Once the loop sling has been fitted around the patient, it can be configured in three ways. With

each of the three methods described below, it is necessary to first connect each shoulder loop of the sling to both sides of the spreader bar.

#### **Attachments Points**

The attachment point designation shown here are only for the purpose of the explanations below.



### Method 1 - Cross-through

(Legs closed with crossing straps)

This method is recommended for most general transfer.

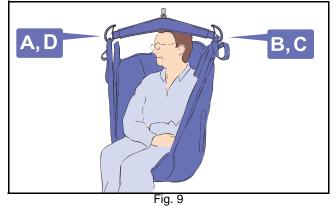


### Method 2 - Hammock

(Bridge, legs closed)

This method can provide a comfortable cradle for amputee patient.

It is also a useful method for patients with contractures, making it difficult to bring a sling strap between the legs.

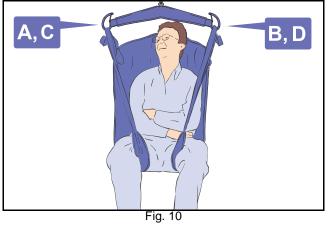


WARNING: Method 2 might not be suitable for confused, combative or erratic patients as they can fall forward and get injured.

### Method 3 - Abduction

(Legs opened with non-crossing straps)

In this method, legs are held in abduction which is convenient for toileting and hygiene care.

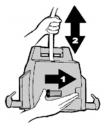


WARNING: Method 3 might not be suitable for patients with no upper body control as they can slide down and almost out of the sling.

## **Transferring the Patient**

- 1) Install the patient into the sling according to the "Installing a Patient into the Sling" section.
- Take the battery out of the charger and insert it into the lift. Make sure the silver contact points go inside the lift.
- 3) Once the patient sling is installed, unwind the strap.

There are two ways to unwind the strap:



First, you can press the down button while holding tension on the strap with the other hand (there must be tension on the strap for the lift to function).

The other way is to use the "quick-release". (1) Push the knob sideways and (2) pull the strap out of the lift.

CAUTION: Push the knob completely over to ensure that the quick-release will work properly. It will not work if there is tension on the strap. Make sure the strap has some slack in it before attempting to slide the knob over. DO NOT force the knob. It should slide easily. 4) Attach the carabiner to the trolley in the rail.

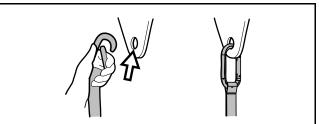


Fig. 11

5) Move the lift over to the patient.

WARNING: Hold the lift at all times when near a patient. The proximity of the lift near the patient's face may cause the patient some discomfort.

6) Lower the lift to approximately below the patient's chin level before beginning to attach the sling straps (this is to avoid the unit from making contact with the patient's face due to the movement of the lift).

For a patient in a lying position, lower the lift near the thorax, and then:

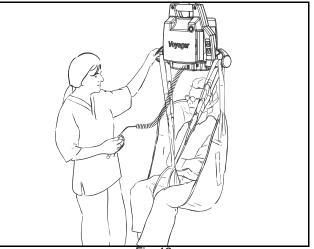
7) Attach the straps of the sling.

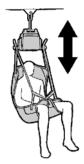
WARNING: Before lifting the patient:

- 1) Make sure that all straps are attached to the lift's supports.
- 2) Make sure the patient's arms are safely out of the way.
- Make sure the sling is not caught on any obstructions (wheelchair brake or arm of chair, etc.).

If any of the above occurs, correct the problem. Any of these situations might lead to a patient fall.

Lift the patient slightly by pressing the UP control button.





9)Lift until the patient's buttock clears all obstacles in the transfer path, chair arm supports for example, before moving the patient. Guide the legs past any obstacle.

10)When the patient is located above the desired point of transfer and ready to be lowered, press the down button.

WARNING: A patient should never be left unattended during a transfer. In the unlikely event of a failure of the device, the caregiver must be ready to react.

- 11) Use the handles on the back of the sling to position the patient when transferring into a chair. Hold the handles firmly as the sling lowers and the sling will tilt back to position the patient.
- 12)Once the patient is properly seated and the straps are loose, remove the sling from the lift.
- 13) Slide the lift away from the patient.



14)Unhook the lift from the trolley in the rail and use the "quick release" to wind up the strap. To do so, (1) push the knob sideways and (2) hold the strap while it winds itself into the lift.

CAUTION: When using the "quick-release", hold the strap in your hand and release the knob only when the strap is not in motion. This will prevent wear of the internal components.

15) Remove the sling from around the patient.

## **Emergency Lowering**

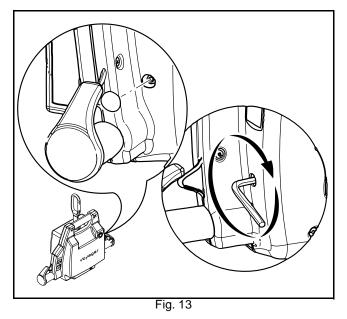
The Voyager has a safety feature that allows the lift to be lowered even if the electrical system does not operate.

Located on the right side of the lift (near the sling support), the emergency lowering device is activated by the insertion of the key included with this manual.

To lower safely a patient, follow these steps, as illustrated in Fig. 13:

- 1) Find the rubber stopper and label on the side of the lift and pull it out. Do not discard it.
- 2) Move the patient over a bed or chair.

 Insert the 4 mm Allen key into the opening then turn it clockwise to lower the patient. The key rotation turns the motor directly, so that for each key turn, the patient will lower slightly.



CAUTION: The emergency lowering feature is to be used only in case of emergency.

 Once the patient is lowered safely on a bed or into a wheelchair, remove the key from the lift and call a qualified technician to service your Voyager.

## **Emergency Brake**

The emergency brake is an additional safety feature that automatically prevents the patient from falling in the unlikely event of a transmission or motor failure.

WARNING: After an incident has occurred and the brake was deployed, never attempt to unlock the brake or press the UP button. This may disengage the brake and make the patient fall. The emergency lowering device cannot be used.

WARNING: Never use a portable lift with the emergency brake deployed. Use other equipment to lower the patient. Forcing the lift to make it move might lead to a patient fall.

The emergency brake is intended for a single activation and therefore can only be used once. Call your ArjoHuntleigh agent to arrange for the unit to be replaced.

## **Battery Information**

For safe handling and to extend the battery lifetime, please follow and remember these instructions.

#### CAUTION: Not following these instructions can cause short battery life.

Only use batteries designed and labelled for use with the device. When not sure, do not use the battery. Make sure the battery belongs to the device by comparing the battery label with the technical specifications in this manuel. If battery type cannot be confirmed, call your ArjoHuntleigh agent.

Battery life depends on many factors: frequency of use, frequency of charging, temperature of operation, storage and storage time.

Make sure to have a replacement battery ready when needed. Have the facility department keep one in stock.

The battery included in the Voyager is 24 VDC, 2.0 Ah and rechargeable. It provides 10 to 30 transfers per battery charge.

NOTE: To prolong battery life, put the battery on charger station whenever the portable lift is not in use. If the low battery indicator beeps, make sure to recharge the batteries as soon as possible. This will extend their life.

NOTE: ArjoHuntleigh uses sealed lead-acid batteries. These ones are not affected by any memory effect. Therefore, they should completely drained before not be recharging.

## **Charging the Battery**

WARNING: Do not operate the charger with a damaged cord or if the lift has been dropped or damaged.

Do not bend the power cord by force, or place a heavy object on it. This will damage the cord and may cause fire or electrical shock.

The steps for recharging the battery are as follows:

1) Eject the battery from the lift unit by pressing on the battery eject button.

NOTE: To avoid dropping the battery, keep your hand near the battery opening when pressing on the battery eject button.

2) Check to make sure that the green light on the charger is illuminated. Insert the battery into the charger, ensuring that the metal contact points on the battery touch the charger's contacts.

The charging indicator light (yellow) will flash while the battery is charging. When the battery is fully charged, the charging indicator light will become solid.

If the battery is fully drained it could take up to six hours to recharge.

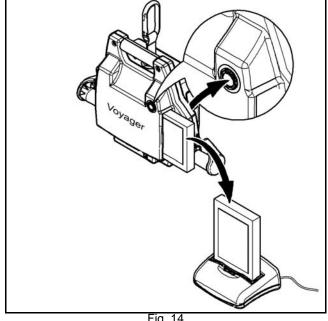


Fig. 14

When the lift is needed again, pull the battery out of the charger and gently slide it back into the Voyager portable lift. The metal contacts should be inside the lift.

The charger's power cord can remain plugged into the wall indefinitely, convenient for overnight recharging.

The battery can be left in the charger for an extended period of time without damaging either the charger or the battery.

If the green light does not go on when the charger is plugged into an electrical outlet, see the "Troubleshooting" section.

CAUTION: The lift should not remain stored for long periods of time without charging the batteries. These should be recharged at least every two weeks to maximize their lifespan.

# **Preventive Maintenance Schedule**

The equipment is subjected to wear and tear, and the following maintenance instructions must be acted upon when specified to ensure that it remains within its original manufacturing specifications. Care and maintenance must be carried out in accordance with the preventive maintenance schedule below.

Customer obligations must be carried out by qualified personnel in accordance with the instructions in this manual.

WARNING: The maintenance described in the following checklist is the minimum that the manufacturer recommends. In some cases more frequent inspections should be carried out. Continuing to use this product without conducting regular inspections or when a fault is found will seriously compromise the safety of the user and of the patient. Service and preventative maintenance can be arranged with the manufacturer. Preventive maintenance specified in this manual can prevent accidents and reduce repair costs.

WARNING: Safety related maintenance and authorized service must be carried out by qualified personnel, fully trained in servicing procedures by ArjoHuntleigh, and equipped with correct tools and proper documentation, including Parts List and Service Manual. Failure to meet these requirements could result in injuries and/or unsafe equipment.

## **User Inspections**

| Action/Check  | INITIALLY | BEFORE<br>EVERY USE | EVERY 2<br>MONTHS | EVERY 4<br>MONTHS | Every<br>Year | EVERY 2<br>YEARS |
|---|-----------|---------------------|-------------------|-------------------|---------------|------------------|
| Lift device   |           |                     |                   |                   |               |                  |
| Inspect for missing hardware,<br>broken enclosure or casing not<br>properly aligned.  | Х         | х                   |                   |                   | Х             |                  |
| Inspect the carabiner at the top of the strap to ensure that it is properly attached. |           | х                   |                   |                   |               |                  |
| Inspect strap for wear.   |           | Х                   | Х                 |                   |               |                  |
| Recharging battery.   |           | Х                   |                   |                   |               |                  |
| Inspect the sling supports on the lift for damage or cracks.                          |           |                     |                   |                   | Х             |                  |
| Inspect wheels in rail for damage, rust or cracks. Replace if damaged.                |           |                     |                   |                   | Х             |                  |
| Clean the rail.   |           |                     |                   | Х                 |               |                  |
| Overall inspection by authorized personnel.   |           |                     |                   |                   | Х             |                  |
| Inspect carabiner for damage or<br>cracks   |           |                     |                   |                   | Х             |                  |
| Verify emergency stop button.   |           |                     |                   | Х                 |               |                  |
| Verify emergency lowering device.   |           |                     |                   | Х                 |               |                  |

# **Care and Maintenance**

| Action/Check  | INITIALLY | BEFORE<br>EVERY USE | EVERY 2<br>MONTHS | Every 4<br>Months | Every<br>Year | EVERY 2<br>YEARS |
|---|-----------|---------------------|-------------------|-------------------|---------------|------------------|
| Sling and hardware  |           |                     |                   |                   |               |                  |
| Check all sling attachments for sign of wear.                     |           | Х                   |                   |                   |               |                  |
| Inspect sling material for wear or deterioration.                 |           | Х                   |                   |                   |               |                  |
| Inspect sling straps for wear.                                    |           | Х                   |                   |                   |               |                  |
| Inspect for any defects or loose threads in the "stitched areas". |           | Х                   |                   |                   |               |                  |
| Cleaning sling as indicated on the tag.                           |           |                     | WHEN NEC          | CESSARY           |               |                  |

## Inspections by an Authorized Service Technician

| Action/Check   | INITIALLY | BEFORE<br>EVERY USE | Every 2<br>MONTHS | Every 4<br>Months | Every<br>Year | Every 2<br>YEARS |
|--|-----------|---------------------|-------------------|-------------------|---------------|------------------|
| Authorized Service   |           |                     |                   |                   |               |                  |
| Replace strap.   |           |                     |                   |                   |               | Х                |
| Inspect the welding aspect on the frame to detect cracks.      |           |                     |                   |                   | Х             |                  |
| Inspect transmission.  |           |                     |                   |                   | Х             |                  |
| Inspect connecting joints for proper attachment.               |           |                     |                   |                   | Х             |                  |
| Verify that the emergency brake on the drum is turning freely. |           |                     |                   |                   | Х             |                  |
| Verify emergency devices for good functioning.                 |           |                     |                   |                   | Х             |                  |
| Load test with SWL (maximum working capacity).                 |           |                     |                   |                   | Х             |                  |

WARNING: Always reinstall the rail end stoppers (if removed) after servicing. These stoppers are part of safety feature. Not having them in place can cause the trolley to fall off the rail and a patient fall.

WARNING: Make sure the trolley is compatible with the stoppers and rail system.

# **Cleaning the Lift**

NOTE: It is recommended to clean the lift and its accessories between each patient use.

#### Removing visible residues:

- 1) Use a cloth soaked with water.
- Remove visible residues from the lift and its accessories (sling, handset, strap) from top to bottom.

#### Cleaning:

- 1) To clean the Voyager and its accessories, spray cleaning fluid on the product, and use a brush (to remove any deposits).
- 2) Use a clean damped cloth with clear water to wipe off all spots of cleaning fluids.
- If cleaning fluid cannot be removed on some hard-to-access parts, spray water on the affected part and wipe off with disposable towels/cloth. Repeat until all of the cleaning fluid has been removed.
- 4) Repeat steps 1 to 3 as necessary.
- 5) Let the parts dry.

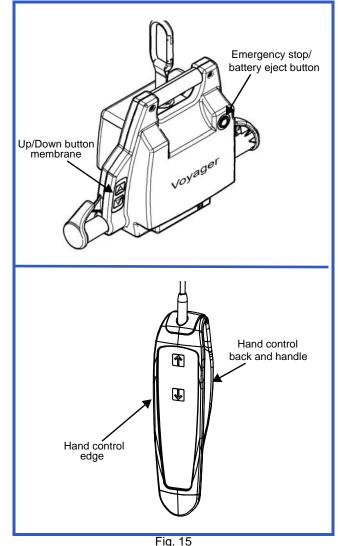
NOTE: Pay special attention to areas pointed in . These are most likely to enclose germs. Use a smaller brush and/or cotton swab to reach them.

CAUTION: Do not drench the product, as this could damage electrical components and cause internal corrosion.

If a hot air dryer is used to dry the lift, the temperature must not exceed 80°C (176 °F).

Do not use petroleum-based solvents, as this may damage plastic parts.

### Voyager's Special Areas to Clean



To ensure a better rolling surface for the trolley wheels, clean the inside of the rail every 4 months. To do so, insert a damp cloth in the opening and slide it from one end of the rail to the other.

# **Strap Inspection**

If the strap is damaged or shows signs of wear or discoloration, the acceptable load on the strap before rupture can drop rapidly and present a danger for the patient or caregiver. ArjoHuntleigh recommends a thorough inspection of the straps every 2 months as follows:

- 1) Completely unwind the strap.
- 2) Look for any signs of wear or discoloration (see Fig. 16 below).

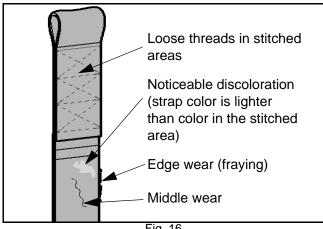


Fig. 16

WARNING: If there is any sign of wear as indicated above or any other visual defects, stop using the lift and call your local ArjoHuntleigh agent to have the strap replaced.

Continuing to use the lift with a damaged strap can compromise the safety of the caregiver or the patient.

The manufacturer recommends changing the strap at least every 2 years or every 2850 cycles—which ever comes first.

# Handling and Storage

Avoid violent impacts while transporting the lift.

The lift should not remain stored for long periods of time without recharging the battery.

NOTE: Even if the lift is not used, ArjoHuntleigh recommends charging the battery at least every 2 weeks. This will prevent premature aging of battery.

If you store or ship the Voyager, ensure that the power is turned off (push the battery eject button) beforehand.

# **Battery Replacement**

Replace the batteries when there is a noticeable reduction in the number of transfers that can be done between charges. If you hear the Voyager beeping and notice a red light flashing, see the instructions in the "Troubleshooting" section to determine if there is a problem with the batteries.

For battery replacement, contact your local ArjoHuntleigh agent.

CAUTION: Do not attempt to use batteries that were not supplied by ArjoHuntleigh. These batteries are specially designed for ArjoHuntleigh charging systems. Attempting to use unapproved batteries may seriously damage the lift and/or the charger.

# **Sling Inspection and Care**

See the documentation included with your sling.

# **Annual Inspection**

The Voyager and its accessories must be inspected annually by a qualified technician.

WARNING: The Voyager and accessories must be serviced every 12 months as a minimum requirement. Moving parts can be affected by wear. Not servicing the product may lead to patient fall, causing injuries.

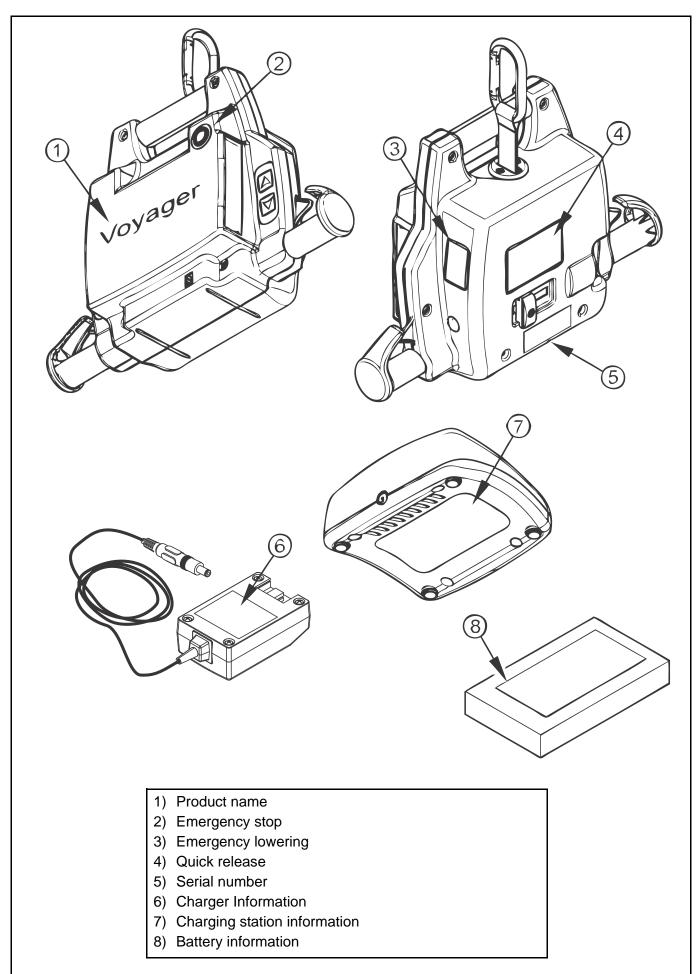
# Troubleshooting

| PROBLEM   | VERIFY   |
|---|--|
| The unit does not work when you press the UP or DOWN buttons on the hand control.                                       | <ul> <li>Make sure the hand control is plugged correctly into the unit.</li> <li>Use the control switches directly on the unit. If they are working, it indicates a problem with the hand control; you would then need to change the hand control.</li> </ul>  |
| The unit does not work when you<br>press the UP or DOWN buttons on<br>both sides of the lift.                           | <ul> <li>Is the battery charged and correctly installed?<br/>Ensure the battery is inserted into the lift with the metal contact points inside the lift.<br/>Place the battery into the charger and check the light on the charger. If the yellow light keeps flashing, leave the battery in the charger for approximately two hours.</li> <li>Is the "quick release" knob completely to the left (locked) position? If not, the lift will not operate. Tighten the tension on the strap to help move the "quick release" knob.</li> <li>Is there tension on the strap? The "anti-crush" feature will prevent the lift from working if there is no tension.</li> <li>If all of the previous points have been checked without success, you probably have a motor or electrical problem. You need to call your ArjoHuntleigh agent.</li> </ul> |
| The unit starts and stops repetitively.   | <ul> <li>If the load is more than safe working load, the unit will not work due to an overload protection on the motor.</li> <li>Has the lift been making a "beeping" sound? The battery is low and needs to be charged.</li> </ul>  |
| The unit emits a "beep" during use.<br>The unit may stop lifting but you<br>can still lower it.                         | Battery is low. Recharge it.   |
| Battery is always dead after only a few transfers (3 to 5).   | <ul> <li>Replace battery with a new one, the life of the current one is<br/>probably nearly over. (See "Battery Information" section).</li> </ul>  |
| The light on the charger shows a solid yellow when the battery is inserted, yet the lift will only do 1 or 2 transfers. | <ul> <li>Battery has either been dropped or damaged in some other<br/>way. Replace the battery.</li> </ul>   |
| The charger's green light is not illuminated.   | <ul> <li>Is the charger plugged into a standard outlet? Try plugging the charger into another outlet to see if it will work.</li> <li>If the green light will still not illuminate, contact your local agent.</li> </ul>   |

# Troubleshooting

| PROBLEM   | VERIFY  |
|---|---|
| When battery is inserted into the charger, the yellow light does not flash or illuminate solid. | <ul> <li>Check the orientation of the battery. The contact points should<br/>be inside the charger.</li> <li>If the yellow charge light will still not illuminate, contact your<br/>local agent.</li> </ul>   |
| The light does not illuminate when there are batteries correctly installed                      | <ul> <li>Make sure that the charger is correctly plugged into the AC outlet, and that the green light on the clip-on charging station is on.</li> <li>Make sure that there is contact between the contact blades of the lift and the contact plates of the charging station.</li> <li>Check the power of the AC outlet on the wall.</li> <li>If the charge station's green light does not light up, contact your local ArjoHuntleigh agent.</li> </ul>  |
| The battery does not slide into the lift.   | <ul> <li>Check if there is any damage to the battery that would interfere<br/>in the lift battery's slot. IF THERE IS DAMAGE - DO NOT USE<br/>THE BATTERY.</li> <li>Try to slide in another battery to see if there is any damage in<br/>the lift battery's slot. If so, call your ArjoHuntleigh agent. If not,<br/>discard the damaged battery.</li> </ul>   |
| Cannot remove battery from the lift   | <ul> <li>See "How to Use the Voyager" section under "Charging the Battery" to know how to correctly remove the battery.</li> <li>If the battery will not come out, tilt the lift to the side so that the battery opening is under the lift. With your hand guarding the opening for the battery, press the eject button on the front of the Voyager while gently tapping the lift to help jolt the battery out of the lift. Once the battery is removed, discard and replace it.</li> <li>If you cannot remove the battery after trying the above, contact your local agent.</li> </ul> |

# Labels on the Lift

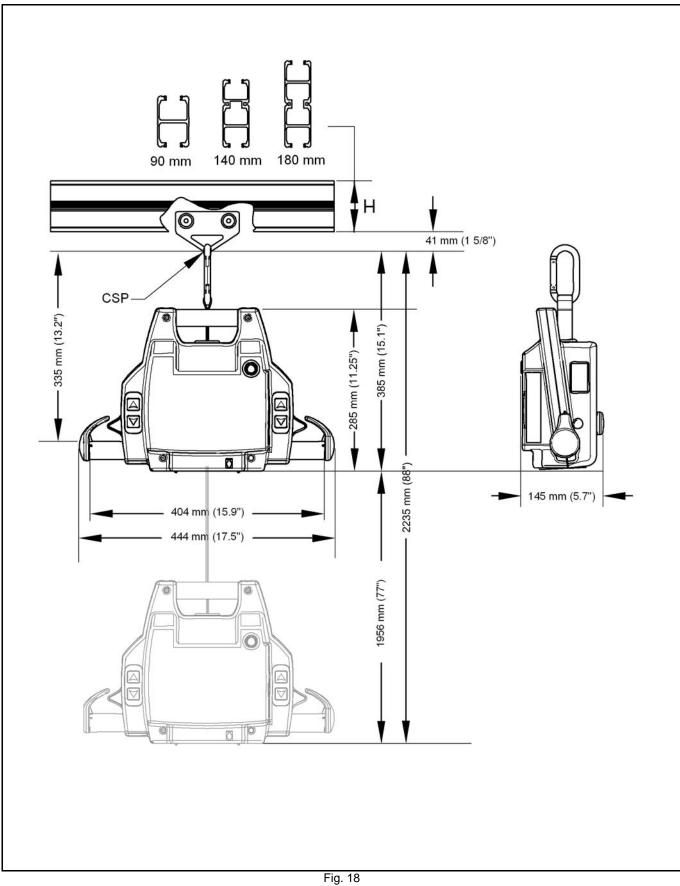


# **Technical Specifications**

| <b>PRODUCT INFORMATION</b><br>Weight, complete   | 5.45 kg (12 lb)  |
|--|--|
| Lifting capacity (SWL)   | 200 kg (440 lb)  |
| Strap length   | <b>3 ( )</b>   |
| Lifting speed  | 4.3 cm/s (1.7 in/s)  |
| Operating force of control   | < 5 N  |
| ELECTRICAL   |  |
| Duty cycle   | Max 10%, 6 min/hr, (max. 1 min. continuous)  |
| Rating   | 24 VDC, 10 A max.  |
| Noise level for either raising or  |  |
| lowering, with or without load   | 70 dBAmax.   |
| Medical equipment  | Type BF protection against electrical shock in accordance with IEC 60601-1   |
| No. 60601-1-08, ANSI/AAMI ES   | SA C22.2 No. 601.1 (SUP1+AM2), UL 60601 1, CAN/CSA-C22.2<br>660601-1: 2005, and tested according to ISO 10535: 2006.   |
| phones, cordless telephones and the<br>and should be kept at least 2.3 n   | ns equipment such as wireless home network devices, mobile<br>heir base stations, walkie-talkies, etc. can affect the Voyager<br>n away from it. Cables from potentially strong sources of<br>fields should not be placed near the unit.                       |
| BATTERY AND CHARGER UNIT   |  |
| Battery  | Qty: 1 x rechargeable 24 VDC, 2.0 Ah   |
| Battery capacity   | Provides up to 30 transfers with a load of 80 kg (176 lb)  |
| Degree of protection - Hand control  | IPX7   |
| Degree of protection - Voyager   | IPX0 - Keep dry  |
| Lift - protection class - shock<br>prevention  | Internally powered equipment   |
| Battery charger input  | 100-240 VAC, 50-60 Hz, 50 VA   |
| Battery charger output   | 24 VDC, 24 VA, 28.1 Vdc, 1 A   |
| Battery charger safety protection  | Class 2, double insulated  |
| OPERATION CONDITIONS   |  |
| Ambient temperature range  | +5 °C to +40 °C (+41 °F to +104 °F)  |
| Relative humidity range  | 15 % to 93 %, non-condensing   |
| Atmospheric pressure range   | 700 hPa to 1060 hPa (max. 2000 m)  |
| STORAGE CONDITIONS   |  |
| Ambient temperature range  | -25 °C to +70 °C (-13 °F to +158 °F)   |
|  | · · · · · · · · · · · · · · · · · · ·  |
| Relative humidity range  | Up to 93 %, non-condensing   |
| Relative humidity range<br>Atmospheric pressure range  | Up to 93 %, non-condensing<br>500 hPa to 1060 hPa  |
| Atmospheric pressure range<br>WARNING: This equipment is not su<br>air or oxygen, or with nitrous oxid   |  |
| Atmospheric pressure range<br>WARNING: This equipment is not su<br>air or oxygen, or with nitrous oxid   | 500 hPa to 1060 hPa<br>litable in the presence of flammable anesthetic mixtures with<br>de. Using the Voyager in this environment might lead to an   |
| Atmospheric pressure range<br>WARNING: This equipment is not su<br>air or oxygen, or with nitrous oxid<br>explosion. The lift migh                     | 500 hPa to 1060 hPa<br>litable in the presence of flammable anesthetic mixtures with<br>de. Using the Voyager in this environment might lead to an   |
| Atmospheric pressure range<br>WARNING: This equipment is not su<br>air or oxygen, or with nitrous oxid<br>explosion. The lift migh<br><i>RECYCLING</i> | 500 hPa to 1060 hPa<br><b>itable in the presence of flammable anesthetic mixtures with<br/>de. Using the Voyager in this environment might lead to an<br/>t create some spark internally and ignite the gaz.</b><br>Sealed lead-acid, rechargeable, recyclable |

# **Technical Specifications**

# **Lift Dimensions**



# **Electromagnetic Compliance**

The Voyager has been tested for compliance with current regulatory standards regarding its capacity to block EMI (electromagnetic interference) from external sources.

Nonetheless, some procedures can help reduce electromagnetic interferences:

- Use only ArjoHuntleigh cables and spare parts to avoid increased emissions or decreased immunity which can compromise the correct functioning of the equipment.
- Ensure that other devices in patient-monitoring and/or life-support areas comply to accepted emissions standards.
- Maximize the distance between electro-medical devices. High-powered devices may produce EMI that can affect the ceiling lift. Refer to separation distance table further on in this document.

For more information on how to manage the unit's RF electromagnetic environment, please consult the AMI TIR 18-1997 - Guidance on Electromagnetic Compatibility of Medical Devices for Clinical/Biomedical Engineers.

### **Electromagnetic Emissions**

Guidance and Manufacturer's Declaration -Electromagnetic Emissions - For all Equipment and Systems

The Voyager is intended for use in the electromagnetic environment indicated below. The customer or the user of the Voyager should assure that it is used in such an environment.

| Emissions test  | Compliance     | Electromagnetic environment - guidance   |
|---|----------------|--|
| RF emissions<br>CISPR 11                                      | Group 1        | The Voyager uses RF energy only for its internal function.<br>Therefore, its RF emissions are very low and are not likely<br>to cause any interference in nearby electronic equipment. |
| RF emissions<br>CISPR 11                                      | Class B        |  |
| Harmonic<br>emissions   | Not applicable | The Voyager is suitable for use in all establishments, including domestic establishments and those directly  |
| IEC 61000-3-2   |                | connected to the public low-voltage power supply network   |
| Voltage<br>fluctuations/flicker<br>emissions<br>IEC 61000-3-3 | Not applicable | that supplies buildings used for domestic purposes.  |

## **Electromagnetic Immunity**

| The Voyager is intended for use in electromagnetic environment specified below. The customer or the user of the Voyager should assure that it is used in such an environment.  |  |   |  |  |  |  |
|--|--|---|--|--|--|--|
| IEC 60601 test level   | Compliance level   | Electromagnetic<br>environment - Guidance   |  |  |  |  |
| ±6 kV contact<br>±8 kV air   | ±6 kV contact<br>±8 kV air   | Floors should be wood,<br>concrete or ceramic tile. If<br>floors are covered with<br>synthetic material, the relative<br>humidity should be at least<br>30%.  |  |  |  |  |
| ±2 kV for power supply<br>lines<br>±1 kV for input/output<br>lines   | Not applicable<br>±1 kV for input/<br>output lines   | Mains power quality should<br>be that of a typical<br>commercial or hospital<br>environment.  |  |  |  |  |
| ±1 kV differential mode<br>±2 kV for input/output  | Not applicable   | Mains power quality should<br>be that of a typical<br>commercial or hospital<br>environment.  |  |  |  |  |
| <5% <i>U</i> T<br>(>95% dip in <i>U</i> T) for 0.5<br>cycle<br>40% <i>U</i> T<br>(60% dip in <i>U</i> T) for 5<br>cycles<br>70% <i>U</i> T<br>(30% dip in <i>U</i> T) for 25<br>cycles<br><5% <i>U</i> T<br>(>95% dip in <i>U</i> T) for 5<br>sec. | Not applicable   | Mains power quality should<br>be that of a typical<br>commercial or hospital<br>environment.  |  |  |  |  |
| 3 A/m  | 3 A/m  | Power frequency magnetic<br>fields should be at levels<br>characteristic of a typical<br>location in a typical<br>commercials or hospital<br>environment.   |  |  |  |  |
|  | <ul> <li>ended for use in electromagner should assure that it is use</li> <li>IEC 60601 test level</li> <li>±6 kV contact</li> <li>±8 kV air</li> <li>±2 kV for power supply lines</li> <li>±1 kV for input/output lines</li> <li>±1 kV differential mode</li> <li>±2 kV for input/output</li> <li>standard</li> <li>±1 kV differential mode</li> <li>±2 kV for input/output</li> <li>5% UT</li> <li>(&gt;95% dip in UT) for 0.5 cycles</li> <li>70% UT</li> <li>(30% dip in UT) for 25 cycles</li> <li>&lt;5% UT</li> <li>(&gt;95% dip in UT) for 5 sec.</li> </ul> | IEC 60601 test level       Compliance level         ±6 kV contact       ±6 kV contact         ±8 kV air       ±6 kV contact         ±2 kV for power supply       Not applicable         ±1 kV for input/output       Not applicable         ±1 kV differential mode       ±1 kV for input/output         ±2 kV for input/output       Not applicable         ±1 kV differential mode       ±2 kV for input/output         ×5% UT       (>95% dip in UT) for 0.5         ycle       40% UT         (60% dip in UT) for 5       Not applicable         70% UT       (30% dip in UT) for 25         <5% UT |  |  |  |  |

# **Electromagnetic Compatibility**

### (continued)

| Guidance and Manufacturer's Declaration -<br>Electromagnetic Immunity - For Equipment and Systems that are Not Life-Supporting |   |   |   |  |  |
|--|---|---|---|--|--|
| Immunity test  | IEC 60601<br>test level   | Compliance<br>level   | Electromagnetic environment - guidance  |  |  |
|  |   |   | Portable and mobile RF communications equipment should<br>be used no closer to any part of the Voyager, including cables<br>than the recommended separation distance calculated from<br>the equation applicable to the frequency of the transmitter.  |  |  |
| Conducted RF   | 3 Vrms  | 3 Vrms  | Recommended separation distance   |  |  |
| IEC 61000-4-6  | 150 kHz to<br>80 Mhz  | 150 kHz to 80<br>Mhz  | $d = \left[\frac{3.5}{3}\right] \sqrt{P}$ 150 KHz to 80 MHz   |  |  |
|  |   |   | $d = \left[\frac{3.5}{10}\right] \sqrt{P}$ 80 MHz to 800 MHz  |  |  |
|  |   |   | $d = \left[\frac{7}{10}\right] \sqrt{P}$ 800 MHz to 2.5 GHz   |  |  |
| Radiated RF<br>IEC 61000-4-3   | 3 V/m<br>80 MHz to<br>2.5 GHz   | 10 V/m<br>80 MHz to 2.5<br>GHz  | where <i>P</i> is the maximum output power rating of the transmitte<br>in watts (W) according to the transmitter manufacturer and <i>d</i> is<br>the recommended separation distance in meters.<br>Field strengths from fixed RF transmitters, as determined by<br>an electromagnetic site survey, <sup>(a)</sup> should be less than the<br>compliance level in each frequency range. <sup>(b)</sup><br>Interference may occur in the vicinity of equipment marked<br>with the following symbol: |  |  |
|  |   |   |   |  |  |
|  | guidelines may  | not apply in all si   | uency range applies.<br>ituations. Electromagnetic propagation if affected by absorptior  |  |  |
| (a) Field strengths<br>mobile radios, am<br>with accuracy. To<br>survey should be<br>the applicable RF                         | s from fixed tran<br>ateur radio, AM<br>assess the elec<br>considered. If t<br>compliance lev | nsmitters, such as<br>1 and FM radio br<br>ctromagnetic env<br>he measured field<br>vel above, the Vo | s base stations for radio (cellular/cordless) telephones and land<br>roadcast and TV broadcast cannot be predicted theoretically<br>ironment due to fixed RF transmitters, an electromagnetic site<br>d strength in the location in which the Voyager is used exceeds<br>yager should be observed to verify normal operation. If<br>asures may be necessary, such as reorienting or relocating the  |  |  |

(b) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

### (continued)

#### Recommended Separation Distance Between -Portable and Mobile RF Communications Equipment and the Voyager for Equipment and Systems that are not Life-Supporting

Recommended separation distances between portable and mobile RF communications equipment and the Voyager.

The Voyager is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Voyager can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communication equipment (transmitters) and the Voyager as recommended below, according to the maximum output power of the communications equipment.

|   | Separation distances according to frequency of transmitter m            |  |   |  |
|---|---|--|---|--|
| Rated maximum<br>output power of<br>transmitter | 150 kHz to 80 MHz $d = \left\lceil \frac{3.5}{3} \right\rceil \sqrt{P}$ | 80 MHz to 800 MHz $d = \left\lceil \frac{3.5}{10} \right\rceil \sqrt{P}$ | 800 MHz to 2.5 GHz $d = \left\lceil \frac{7}{10} \right\rceil \sqrt{P}$ |  |
| <b>W</b><br>0.01                                | 0.12  | 0.12   | 0.24  |  |
| 0.1   | 0.37  | 0.37   | 0.74  |  |
| 1   | 1.17  | 1.17   | 2.34  |  |
| 10  | 3.69  | 3.69   | 7.38  |  |
| 100   | 11.67   | 11.67  | 23.34   |  |

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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