Installation Manual

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Function Keypad LiNX

Function Keypad Button LiNX (P016-76) - Function Keypad Paddle LiNX (P016-77)

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About this manual

Installation manual

This manual contains **useful and important information** about your device. **Please read it carefully before use and store safely for future reference**.

Our team will be happy to answer your questions.

mo-vis bv

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CH REP	CH-REP: SKS Rehab AG, Im Wyden, 8762 Schwanden GL, Switzerland.
UK CA	UK Responsible Person: QServe Group UK, Ltd., 49 Greek Street, London, WID 4EG, UK.

Important information

CAUTION: Incorrect use or installation may lead to risk of injury to the user and damage to the wheelchair or other property. In order to reduce these risks, you should carefully read this manual, paying particular attention to the safety instructions and warning texts.

NOTICE: Only install this product on a wheelchair where the wheelchair manufacturer allows the installation of third party parts.

Warranty

mo-vis bv warrants the product to be free from defects in material and workmanship for a period of 2 years under proper use, care and service. The dealer should never keep mo-vis products in stock for a period more than 6 months prior to delivery to the end-user. mo-vis' warranty will never exceed a period of 2 years and 6 months after shipment.

All warranties do not extend beyond the initial purchaser from an authorized mo-vis dealer or mo-vis itself.

Repair and replacement

For warranty service, contact your dealer (or us if bought directly). In the event of a defect in material or workmanship, the dealer or customer must obtain a Return Merchandise Authorization (RMA) number from us. The product must be shipped to a service centre designated by mo-vis. mo-vis will repair or, at mo-vis' option, replace any product covered by the warranty.

Amendments

No person is authorized to alter, extend or waive the warranties of mo-vis.

Disclaimer and limitations of remedies

The express warranties set forth in this agreement are in lieu of all other warranties of merchantability or fitness of purpose. In no event shall mo-vis be liable for any direct, indirect, incidental or consequential damages resulting from any defect in this product.

Warranty of parts subject to “normal wear and tear” (e.g. joystick handles, pads, …) are not covered in the warranty except as it applies to defects in material or construction.

Voiding of warranties

The foregoing warranties are contingent upon the proper installation, use, maintenance and care of the product. The warranty will be void if the product has been installed or used improperly, or if it has been repaired or any part replaced by persons other than mo-vis or an authorized dealer. This product is considered as a non-serviceable part.

The addition of equipment or features that are not manufactured or recommended by mo-vis could affect the intended function of the mo-vis product and may invalidate the warranty.

Technical support

TROUBLE:

In case of technical problems:

1. Contact mo-vis at contact@mo-vis.com or +32 9 335 28 60.
2. Always state the product code and device serial number when contacting us. This ensures you are provided with the correct information.

Warning labels

Please read this manual, the safety instructions and warning texts carefully, in order to reduce the risks associated to the device. Our products are safe under normal and reasonably foreseeable operating conditions.



NOTE: This symbol indicates general notes and information.



CAUTION: This symbol indicates caution for a hazardous situation that, if not avoided, could result in minor or moderate injury.



WARNING: This symbol indicates a warning for a hazardous situation that, if not avoided, could result in death or serious injury.

Other labels:

	Catalogue number: indicates the manufacturer's catalogue number so that the medical device can be identified.
	Batch code: indicates the

	manufacturer's batch code so that the batch or lot can be identified.
	Medical device: indicates that the item is a medical device.
	Date of manufacture: indicates the date when the medical device was manufactured.
	Serial number: indicates the manufacturer's serial number so that a specific medical device can be identified.
	Consult instructions for use or consult electronic instructions for use: indicates the need for the user to consult the instructions for use.
	Keep dry: indicates a medical device that needs to be protected from moisture.
	Do not use if package is damaged and consult instructions for use: indicates that a medical device should not be used if the package has been damaged or opened and that the user should consult the

	instructions for use for additional information.
CE	CE label: indicates that the manufacturer or importer affirms the good's conformity with European health, safety, and environmental protection standards.
	WEEE: indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.
	Manufacturer: indicates the medical device manufacturer.

Limited liability

mo-vis accepts **no liability** for personal injury or damage to property that may arise from the failure of the user or other persons to follow the recommendations, warnings and instructions in this manual.

CAUTION: Carry out only the service and maintenance activities specified in this manual, as long as you comply with the demands stated in this manual for a specific action. In case of doubt, contact mo-vis.

WARNING: The device should always be tested without any person sitting in the wheelchair after every alteration of the physical installation or adjustment of the parameters.

Installation

Qualified service engineer

Only a qualified service engineer may install the device.

⚠ **CAUTION:** An incorrect programming of the wheelchair electronics may cause damage to the devices, or injury to the user.

⚠ **CAUTION:** Use proper tools to install and adjust the device. The use of improper tools may cause damage to the device.

Installation Plan

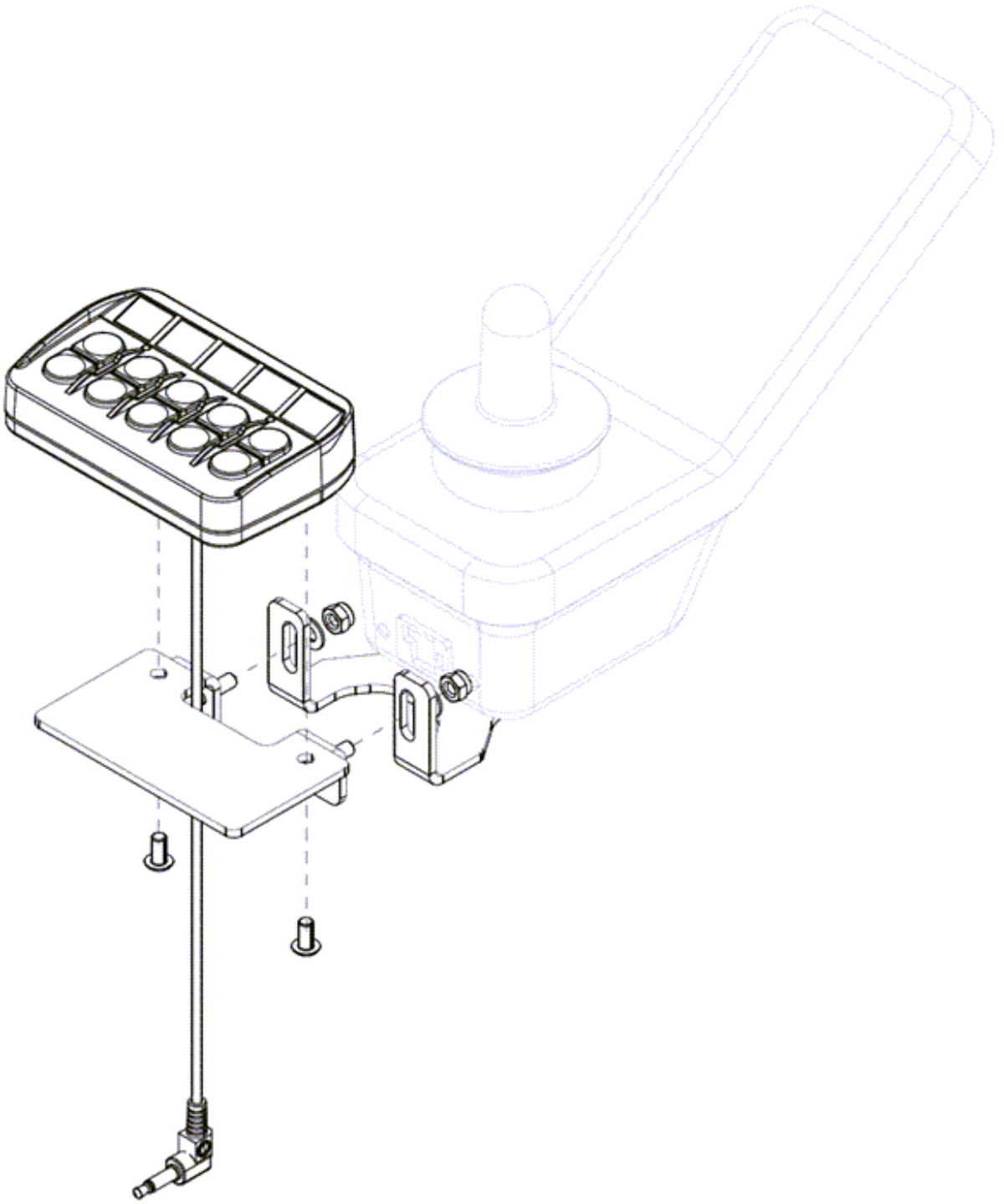
Set up an installation plan before beginning the installation. Based on the users' needs and capabilities, this plan should take into account:

- Where which part of the device should be placed.
- How the device will be operated.
- A robust and reliable positioning. Hard or sudden movements of the wheelchair may not disorganize the installation.

WARNING: Protect the device against bumps. Mind damaging the unit and wiring. Make sure that cabling is mounted in such a way that excessive wear and tear is avoided.

WARNING: Make sure that loose parts of the cable are out of reach to avoid strangulation or other injuries.

Installation on a REM 4XX



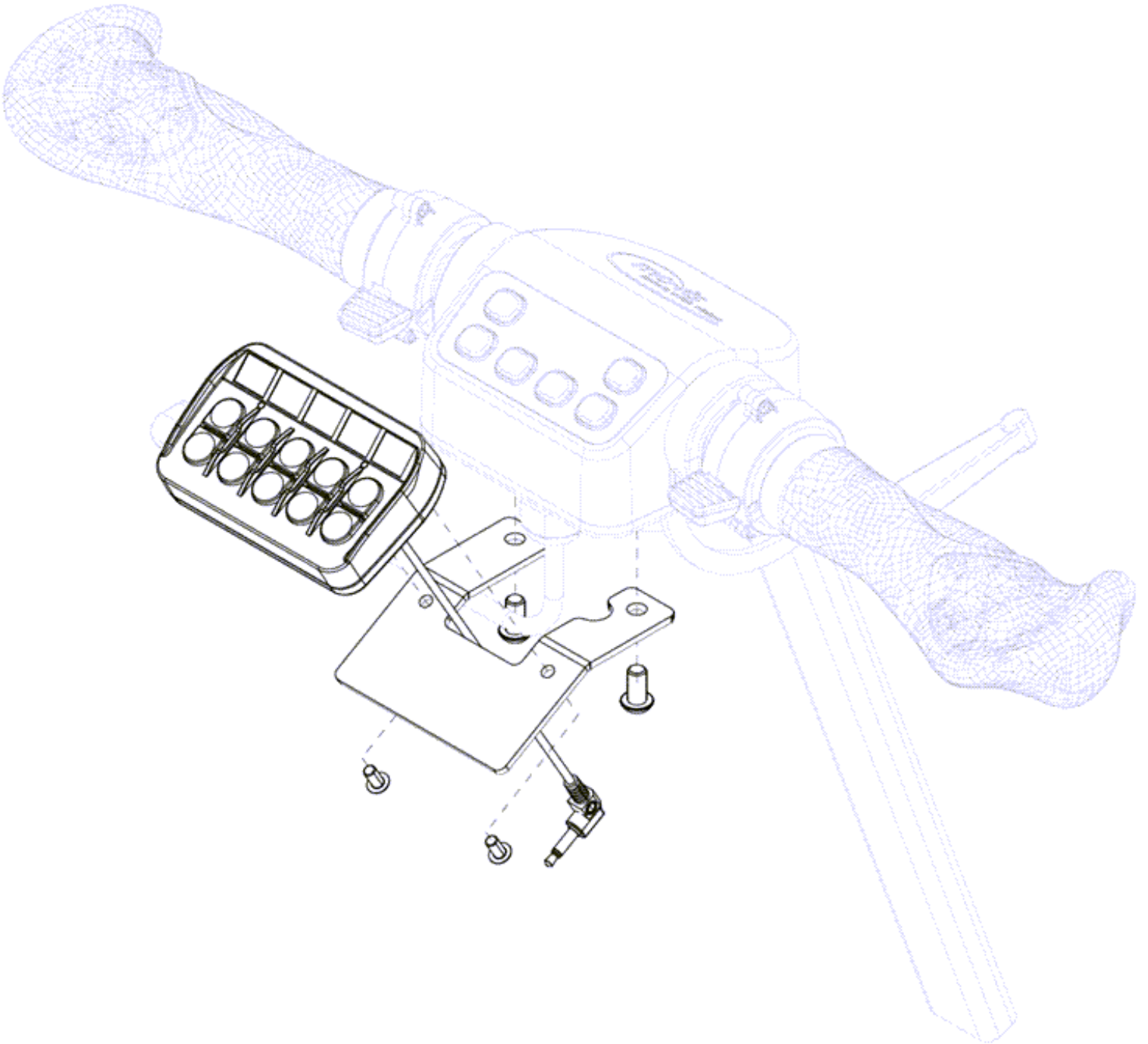
Plug the 3.5 mono jack in the mode socket (J2) of the REM 4xx.

Place and secure all cabling on the wheelchair.

> ⚠ **CAUTION:** All wheelchair electronics must be switched off during installation.

You can use the optional M016-79 Keypad bracket inline set LiNX for that.

Installation on a Scoot Control LiNX



Plug the 3.5 mm mono jack in the bottom jack connector of the Scoot Control LiNX.

Place and secure all cabling on the wheelchair.

> ⚠ **CAUTION:** All wheelchair electronics must be switched off during installation.

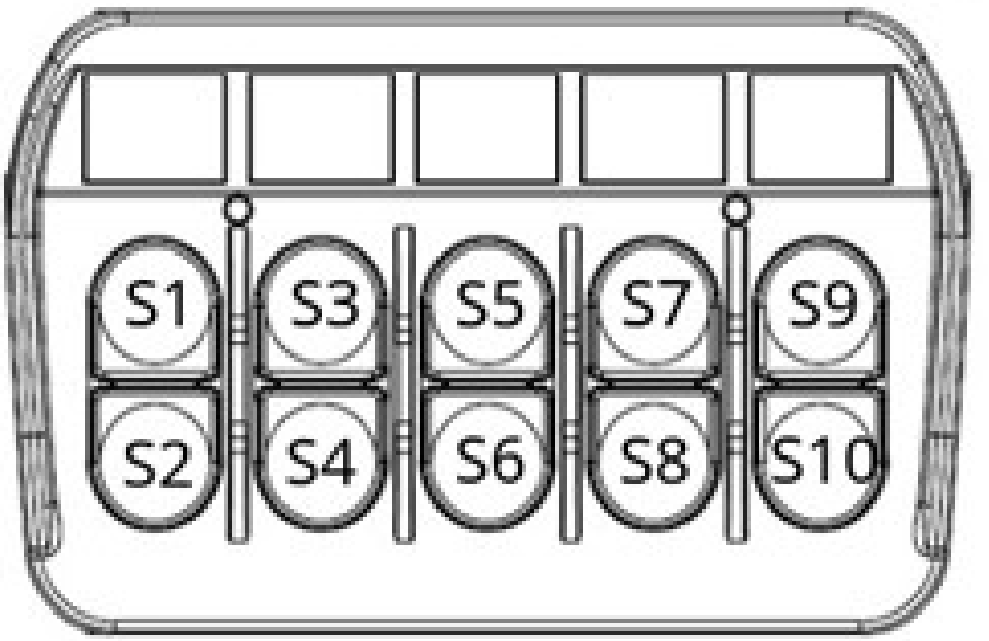
You can use the optional M015-91 Scoot Control keypad bracket set for that.

Operation

Some LiNX parameters need to be set correctly before the keypad is operational.

For more information, please refer to *GBK54036 LiNX Systems Installation Manual*.

The switches S1 through S10 in LiNX correspond to the respective buttons indicated in the following drawing:



NOTE: Only one button an be active at the same time.

NOTE: The LED lights of the keypad are not functional.

Connecting the Function Keypad to the REM 4XX

Go to **Modules** > **REM 4XX** > **Right Jack Socket Tip - Port Settings** > **Input Type** and set it to **10-Way Switch**.

Then configure the rules behind each switch (e.g. lighting, seating,…) and write the configuration into the wheelchair.

Connecting the Function Keypad to the Scoot Control LiNX

Go to **Modules** > **mo-vis Scoot Control** > **Jack Socket - Tip - Port Settings** > **Input Type** and set it to **10-Way Switch**.

Then configure the rules behind each switch (e.g. lighting, seating,…) and write the configuration into the wheelchair.

Enable monitoring

If the user wants to be notified when the keypad malfunctions, then you have to set do the following: **Modules** > **REM 4XX or mo-vis Scoot Control** > **(Right) Jack Socket - Tip - Port Settings** > **Advanced** > **Monitored** and set this to **On**.

Testing

WARNING: Make sure that loose parts of the cable are out of reach to avoid strangulation or other injuries.

1 Check the Actuator Keypad for intactness. Check whether:

- The device is not bent or damaged.
- Housing, cabling and all connectors are not damaged.

2 Operational test

CAUTION: Execute this test only on a level surface, with at least one metre of free space around the wheelchair.

- Activate the wheelchair operating system.
- Check for any error message.
- Press on a button/paddle of the Actuator Keypad until the actuator's movement is finished. Repeat for all buttons/paddles.

CAUTION: The wheelchair seat will move. Avoid dangerous positions and situations while moving the seating unit.

First time use

During first time use by the user, it is advised that the dealer or service engineer assists and explains the different possibilities to the user and/or his attendant. If needed, the dealer can make final adjustments.

> ⚠ **CAUTION:** It is important that the customer is fully aware of the installation, how to use it and what can be adjusted to optimize his/her experience.

1 Explain and show the customer how you have executed the installation and explain the functionality of every (new) button.

2 Have the user test all positions of the device. If needed, adjust the (position of the) device.

- Is the Actuator Keypad and its buttons within easy reach?
- Can the user safely adjust the seating of the wheelchair with the least effort?
- Is the placement of the device in all available positions optimal for the user?

3 Explain the possible problems and how to address them, to the user.

Maintenance

The device is maintenance-free. Under regular circumstances of use, the device and different parts do not require additional maintenance. Please refer to the *User Manual* of the device for cleaning instructions.

> ⚠ **WARNING:** As dust and dirt could lead to reduced functionality, all parts of the device should be cleaned on a regular basis (monthly) or whenever needed.

Monthly inspection

Monthly, or whenever needed, check whether:

- All bolts and screws are still firmly tightened.
- There is no damage to any wiring.
- There is no excessive wear to any of the parts.

Technical data

Product description & code

- M016-76 Function Keypad Button LiNX
- M016-77 Function Keypad Paddle LiNX
- M016-79 Keypad Bracket In Line Set LiNX
- M015-91 Scoot Control Keypad Bracket Set

Specifications

SPECIFICATION	DESCRIPTION
Electrical connection	Dynamic LiNX compatible mode jack connection
Resistor value	LiNX 34E
Size & Weight	89.7 x 55.5 x 20 mm/3.53 x 2.19 x 0.79 in (WxDxH) - 80 g/2.82 oz
Operating force button	150-250g (1.5 - 2.5 N)/5.29-8.82 oz

SPECIFICATION	DESCRIPTION
Maximum allowed force button	800g (8N)/28.22 oz
Operating force paddle	150-250g (1.5 - 2.5 N)/5.29-8.82 oz
Maximum allowed force paddle	800 g (8N)/28.22 oz
Connection	Pigtail 250 mm mono jack male connector
Mounting	2 * M4 (6mm/0.24 in depth) (55 mm/2.17 in center/center)

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Go to our website for more information on our products or share your experience with us via email.