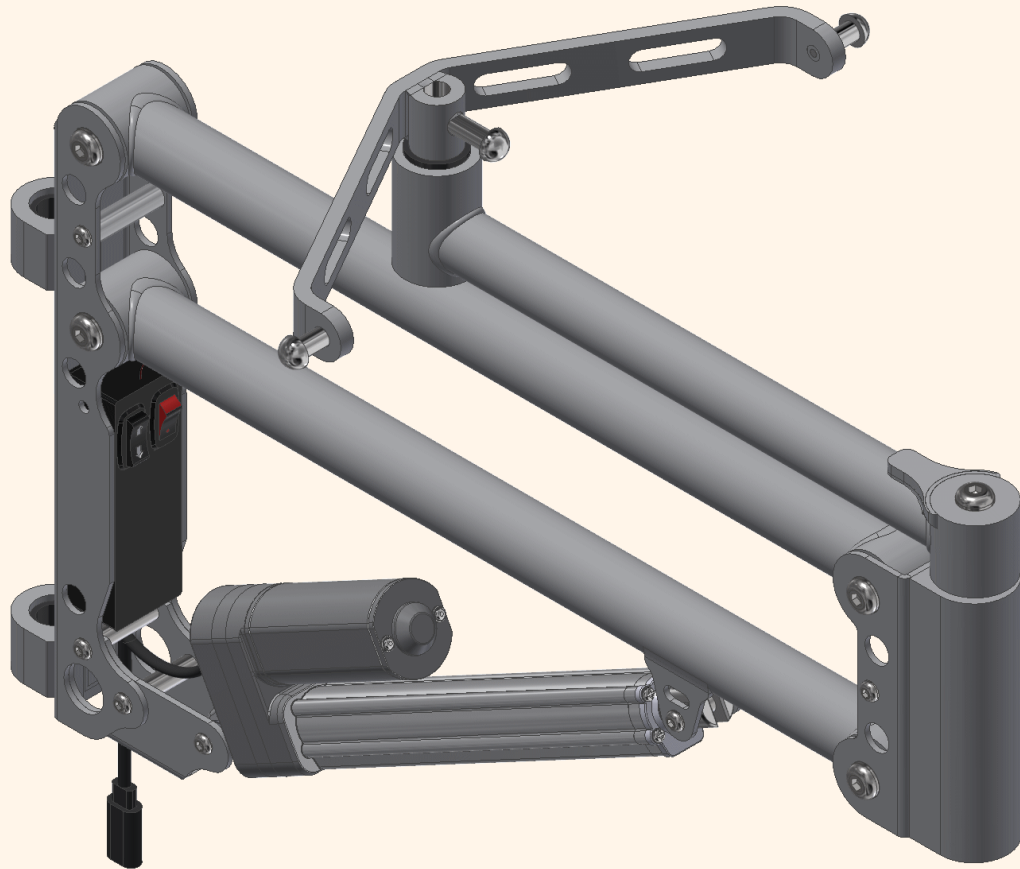




USER MANUAL



SPGH-MDE

Person lift "*Handylift*"



 **HandyTech**[®]
www.handytech.it
TRAVEL EXPLORE LIVE 



Congratulations, you have equipped your vehicle with a device **SPGH-MDE**.

We wish you beneficial use.



The use of **SPGH-MDE** is very simple and described in detail in these instructions.

It is necessary to read these operating and maintenance instructions carefully before using the vehicle.

The SPGH-MDE can be used in conjunction with brackets to facilitate transfer from the wheelchair to the vehicle seat or, with the aid of the appropriate accessories, for use in homes, hotels, holiday resorts, etc.

MANUAL SYMBOLS



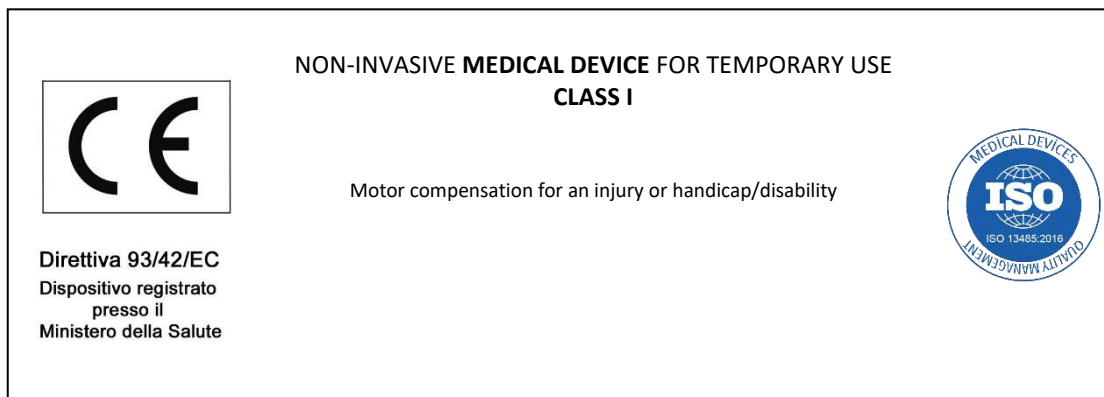
NOTE



PROCEDURE



ATTENTION - Information of particular importance



12 V power supply

Complies with all the characteristics relevant to MACHINE DIRECTIVE 2006/42/EC and ELECTROMAGNETIC COMPATIBILITY 2014/30/EC.

Instructions drawn up on the basis of the standard configuration; modifications may be made according to the needs of the user and the characteristics of the vehicle.

The manufacturer reserves the right to modify the product without prior notice

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1. General information

An electrically operated mechanical arm, attached to the vehicle structure or to special brackets and fitted at its end with a sling, allows the person to be lifted easily and, through its three pivot points, allows the person to be comfortably placed inside the vehicle or to facilitate his or her movement in other environments.

The lifting movement is operated by means of a radio control (two control buttons are also provided in case of emergency).

The person lift is equipped with an electrically connected **RED** emergency device that automatically blocks any movement by cutting off the power supply; it is also equipped with an anti-crushing system and can be easily removed from its various supports.

The Person Support Sling is made of a robust, biocompatible and easily washable material.

When used in a vehicle, it can be applied to the vast majority of both 3- and 5-door vehicles, as well as SUVs and MPVs.

It is also possible to use this aid on several vehicles (as long as they are equipped with fixing brackets) or, by means of special brackets and power supply, in the home to facilitate transfer from the wheelchair to the bathroom, bed or WC. For special needs, a special trolley can be provided for use, for example, in a hotel or second home for transferring the wheelchair to the bathroom, bed and toilet.

The trolley can also be dismantled into three parts for transport. The width of the trolley is variable in four different positions to facilitate the insertion of the wheelchair into it and to adapt it to the passage through the doors of the house. The rear wheels of the trolley, in addition to being steered, are equipped with a braking system.

2. Safety

Device symbols and accessories



CONSULT INSTRUCTIONS BEFORE USE:

Inform the user of the need to consult the instructions for USO



NON-RECYCLABLE:

identification of a common disposal prohibition of the device



DANGER OF CRUSHING:

This symbol is located at various points that may be subject to crushing, pay attention where present.



DEVICE WEIGHT:

this symbol identifies the total mass of the device in question.



TOXIC. USE OF PROTECTIVE GLOVES AND GOGGLES:

These are the warning symbols on the SPGHA battery pack, and they emphasise the need to use gloves and goggles when handling these components (battery)

The system must only be used for its intended purpose; any other use is considered improper.
CARROZZERIA 71 s.r.l. declines all responsibility for damage caused by improper use of the system.

Explain the operation of the device to all persons who are to use it.



Make sure that during the transfer operations, there are no persons, animals or objects obstructing the normal movement of the "Handylift" SPGH-MDE person lift within its range of action and also, during the operations, do not insert your hands or objects between the parallel handling arms of the lift. It is advisable to carry out the transfer operations on level ground.



Under no circumstances should the lift be left installed on the vehicle while travelling, as it could create dangerous situations and physical damage to the person transported in the event of a collision.



ALWAYS check the condition of the device and its accessories before use.



DO NOT use the device without an operator present.



If you need to service or repair your vehicle, we recommend that you provide the person in charge with the telephone number of the system installer for guidance.



After 2 years it is advisable, in cooperation with your Handytech Centre, to check the state of the system and possibly replace some parts.

In addition, we remind you that outside the warranty period the maintenance program is at your discretion, but the advice is to follow it scrupulously as neglect could cause system malfunction and cause inconvenience and create danger while using the device.

Maintenance work on the device both during the warranty period and outside the warranty period is the full responsibility of the customer.



The manufacturer guarantees the product for 24 months only if all maintenance work has been carried out at an authorised Handytech Centre.

3. Technical specifications

Device specifications:

➤ Person Lift Weight	9.5 Kg
➤ Maximum Load Capacity	120Kg
➤ Maximum excursion (height)	42 cm
➤ Power supply	12V DC
➤ Maximum absorption	10 Ah
➤ Device materials	
➤ Device finishes	
➤ Sling	
➤ Sling Material	

Aluminium/Steel S235JR/ Stainless Steel

Powder Coating - RAL 9007 Bonded

Sizes: S-M-L (M = STANDARD)

Polyamide

Arms leght with increased excursion (optional):

- + 5 cm more than standard
- +10 cm more than standard

Capacity	Range Excursion
110 Kg	45.5 cm
100 Kg	48,5 cm

Specifications Sling:

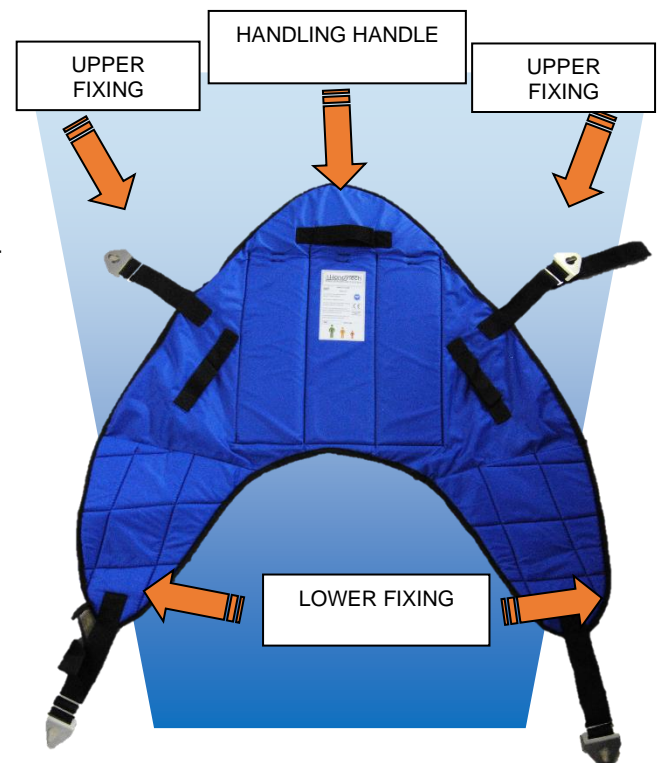
The specific sling for the "Handylift" Person Lift is available in three different sizes:

- S (Small) identified by the **RED** handling handle
- M (Medium) identified by the **YELLOW** handling handle ----
→ Standard version
- L (Large) identified by the **GREEN** handling handle

This sling has been tested for a maximum load capacity of 120 kg, is made of biocompatible materials and has reinforced, high-strength seams.



Check the wear and tear on the sling before each use.



Component description:

- VEHICLE FIXING BRACKETS**

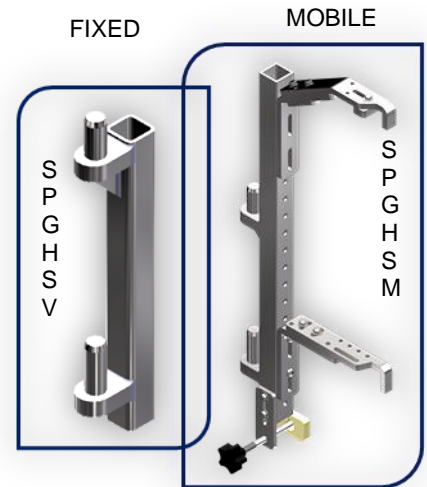
Two types of brackets are provided for the use of the SPGH-MDE device on vehicles:

- Fixed Vehicle Bracket (SPGHSV)**

Permanent installation
 Maximum load capacity 120kg.

- Mobile Vehicle Bracket (SPGHSM)**

Removable after each use
 Maximum load capacity 90Kg



- REMOTE CONTROL**

The SPGH-MDE Person Lift is equipped with a programmable, compact, ergonomic and intuitive radio remote control.



- PERSON LIFT**

Class I medical device, consisting of two parallel arms and three pivot points for rotation. Equipped with an emergency device and manual handling control. Maximum capacity: 120Kg.



- LIFT BAG**

The SPGH-MDE is contained in a bag, which is made up of a moulded shell inside to provide greater protection from shocks and chafing.



4. Use on vehicle

- ❑ Carry out operations with the parking brake on and with the vehicle on level ground.
- ❑ Completely open the left or right front door of the vehicle.
- ❑ When using the SPGH-MDE lift with the **SPGHSM mobile bracket**, hook the latter onto the original vehicle hinges, making sure that the two hooks are correctly anchored (Photo 1,2).



PHOTO 1



PHOTO 2

- ❑ Turn the knob clockwise (screw it in) until the Teflon pad presses against the original seal of the vehicle, thus eliminating play on the bracket (photos 3,4). Insert the SPGH-MDE lift into the pins on the bracket (Photo 5).



PHOTO 3



PHOTO 4

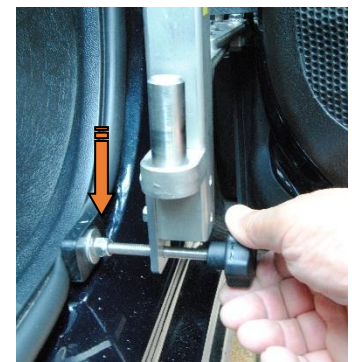


PHOTO 5

- When using the SPGH-MDE lift on the **SPGHSV fixed bracket**, insert the lift on the bracket provided on the vehicle (Photo 6).



PHOTO 6

5. Transfer process

- Insert the L-joint and sling attachment bracket at the end of the lift (photos 7,8).

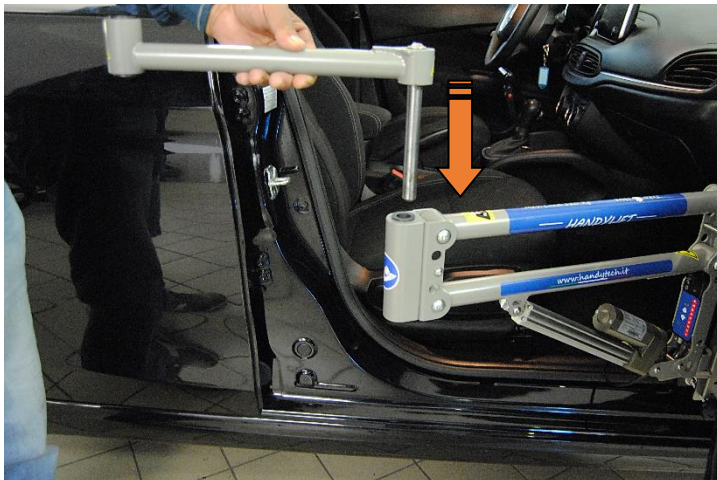


PHOTO 7



PHOTO 8

Insert the power connector (Photo 9,10) and, only in case of use on a **SPGHSM mobile bracket**, connect the electrical wiring to the cigar lighter socket on the vehicle (Photo 11, 12).



PHOTO 9



PHOTO 10



PHOTO 11



PHOTO 12

- Activate the Person Lift through its emergency button (Photo 13), and after that the LED will turn them on. At this point, lower completely the person lift, using the remote control (Photo 14).

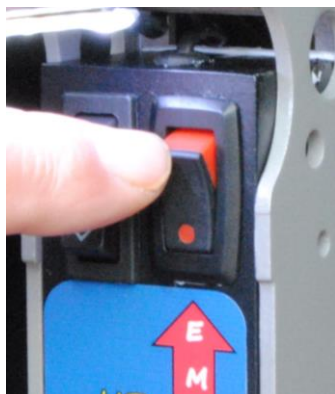


PHOTO 13

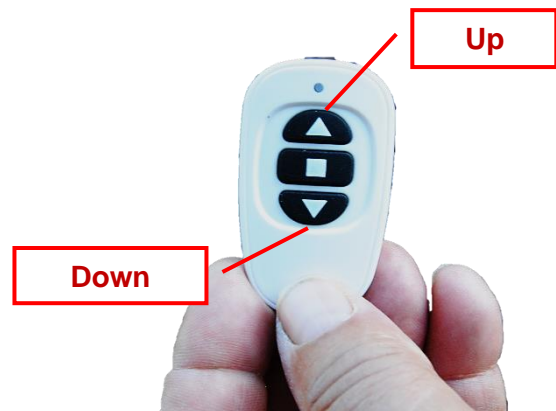


PHOTO 14

- Bring the wheelchair and the person after have put the supplied sling between the wheelchair's backrest and the person (Backrest) and between the seat and the person (thighs) (Photo 15,16).



PHOTO 15



PHOTO 16



PHOTO 17

- Position the wheelchair so that the sling can be attached to the lift and apply the brakes on the wheelchair (Photo 17).
- Hook the sling's buckles to the sling fixing bracket, the upper ones to the sides and the two lower ones to the center, as shown in photo 18.

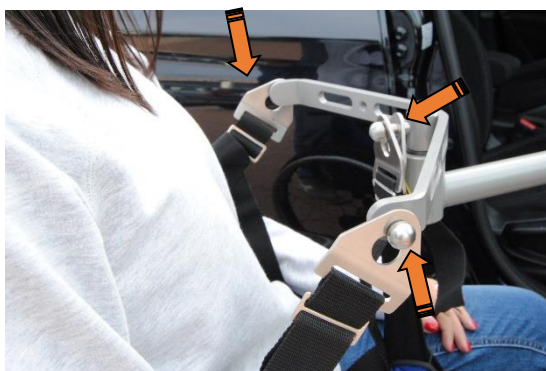


PHOTO 18



PHOTO 19

- Raise the lift a few centimeters by pressing the up button and check the person's balance before continuing the operation.
(During the first use, it will be necessary to adjust the length of the harness straps, using the adjusters - Photo 19).

- Continue lifting the person up to the height necessary to be able to insert the legs inside the vehicle, after which, using the articulation systems of the lift, bring the structure as close as possible to the door. Using the handle at the rear of the sling (Photo 21), put the person inside the vehicle, taking care not to make the person collide with the upper part of the door turner.

This sequence of operations is illustrated in the following photos. 20-21-22-23-24-25-26-27.



PHOTO 20



PHOTO 21



PHOTO 22



PHOTO 23



PHOTO 24



PHOTO 25



PHOTO 26



PHOTO 27

- ❑ Once the person is inside the vehicle, it is necessary to lower the lift by pressing the lowering button (Photo 25), and at the same time position the person correctly on the seat.
- ❑ Unhook the sling from the sling hook, remove the sling's support bracket, the "L" bracket, lower the lift completely, taking care not to crush the person's legs (although the lift is equipped with an anti-crushing system), disconnect the electrical connector and finally remove the lift from its fixing bracket by lifting it upwards (photos 26,27).



PHOTO 28



PHOTO 29



Under no circumstances should the lift be left installed while travelling, as it could create dangerous situations and physical damage to the person being transported in the event of a collision.

- ❑ During all phases of the transfer, the remote control unit must be stored in a safe, non-shockable position.
- ❑ All these components must be placed in the luggage compartment in the bag provided so that they cannot move around during the journey and create dangerous situations (photo 30).



PHOTO 30



PHOTO 31

- ❑ Check that the person is correctly positioned on the seat, leave the sling between the person and the vehicle seat (Photo 31) and fasten the original seat belt and, in some cases, the four-point belt if fitted.
- ❑ Remove the wheelchair and store it in the luggage compartment or the rear compartment of the vehicle.
- ❑ Close the door and start the journey.
- ❑ Of course, the operations must be carried out in reverse to transfer the person from the seat to the wheelchair.

What to do if ...

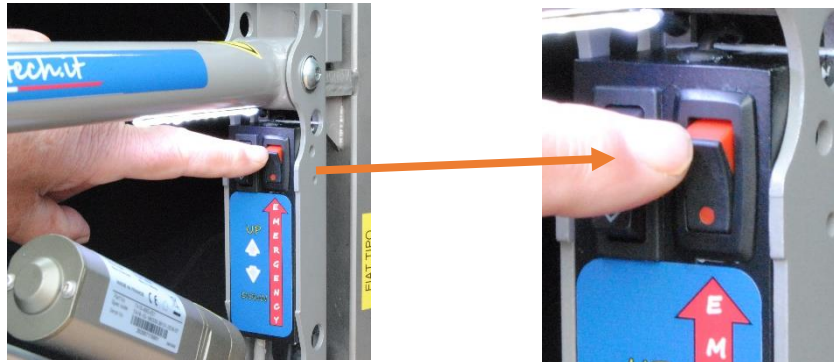
1. Pressing the buttons on the remote control does not provide any kind of movement

- ✓ Probable cause, active emergency button, turn it off.
- ✓ Battery of the remote run down so use the manual control, see photo.



2. It is necessary to stop any movement of the device instantly

- ✓ Press emergency device **RED KEY** see photo (**Reset for reuse**)



3. When pressing the up or down button, the SPGH-MDE person lift does not move

- ✓ Check that the 10 A fuse located in the engine compartment or in the fuse box area of the vehicle, if used on the **SPGHSV fixed bracket** (its location will be explained by the installer when the vehicle is delivered), or integrated in the power supply wiring, if used on the **SPGHSM mobile bracket**, is intact.

4. During the ascent and/or descent operation, the SPGH-MDE person lift does not raise or lowers completely, causing the fuse to blow.

- ✓ Check that there are no objects obstructing movement.



In case your SPGH-MDE person lift has a problem other than those listed, it is imperative that you contact your nearest Handytech Centre

6. Accessories

➤ Trolley for Lift:

The trolley, which can be combined with the device, can be disassembled, transported and used in different environments: homes, hotels, resorts. It is made of steel and is equipped with two non-slip rubber handles and two pivoting wheels with brakes that allow for safe handling. The HandyLift, in combination with the trolley, is powered by a rechargeable battery

SPGHC



SPGHS



➤ Wall bracket for Lift:

The wall fixing bracket ensures that the lift can be used in a domestic environment. It is equipped with a height adjustment system that makes it usable in different positions. The robust construction and the six evenly distributed hooking points guarantee an excellent hold.

MECHANICAL EXTENSION

In combination with the wall bracket, a mechanical extension can be used to increase the working radius of the HANDYLIFT lift by approx. 200 mm. The power supply is provided by the watertight battery power supply unit, equipped with a battery charger applicable to the mains.



Wall bracket extension



Trolley extension

- Extension arms, wall bracket and trolley extension (**OPTIONAL**)

Accessories on request according to specific needs contact Handytech for more information.

- Place the "bag" with battery pack on the trolley frame (photos 35, 36).



PHOTO 35



PHOTO 36

- After the trolley has been fully assembled, brake the rear wheels by pressing the brake operating lever with your foot (photo 37).

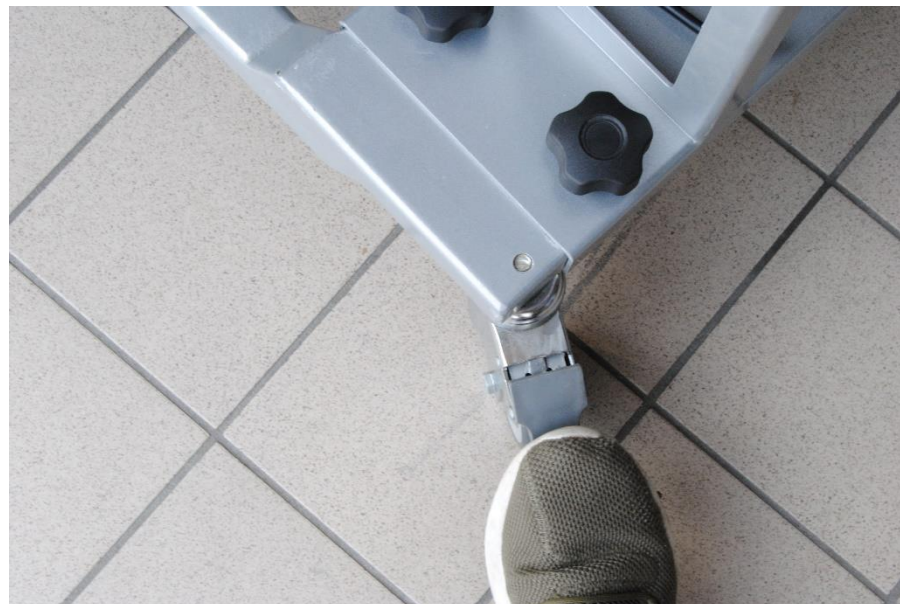


PHOTO 37

- Insert the SPGH-MDE lift into the two pins on the main structure of the trolley (photos 37,38), making sure that it comes into contact with the end-stroke boxes.



PHOTO 38



PHOTO 39

- Couple the two-way connector on the SPGH-MDE hanger with the one on the battery pack bag (Photo 40).

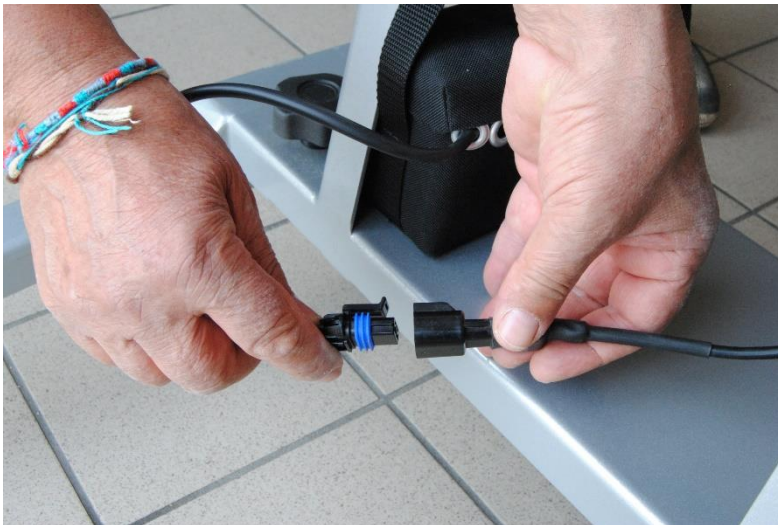


PHOTO 40



PHOTO 41


 Use of the SPGH-MDE lift on a SPGHC trolley requires removal of the "L" bracket (photo 41) normally used on cars. In this case the sling's support bracket will be inserted directly into the end of the lift (photos 42,43).



PHOTO 42



PHOTO 43

 If necessary, on request, an extension (SPGHC "S") can be inserted at the end of the lift, at which end the sling support bracket will be inserted (photos 44,45).



PHOTO 44

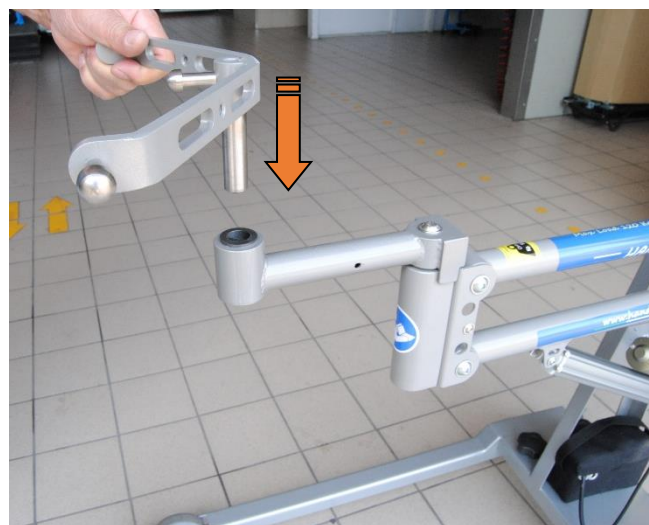



PHOTO 45

 The SPGHC "S" extension is fitted with a mechanical constraint that does not allow it to rotate and its function is to increase the length of the arm, which is particularly useful when fitting inside the car, in cases where there are particularly bulky wheelchairs and in other certain cases.


 When the SPGHC "S" extension is not in use, it must be fixed to the trolley by tightening it to the fixing hole with the knob supplied (photos 46, 47).



PHOTO 46

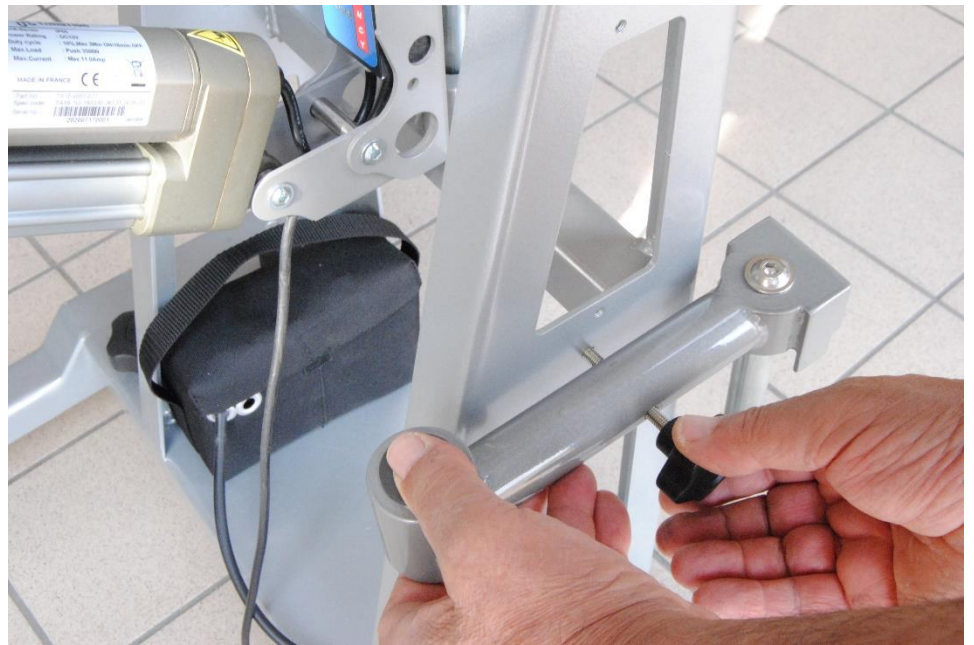


PHOTO 47

- ❑ Insert the sling between the wheelchair and the person to be lifted, then bring the wheelchair closer to the trolley and insert the buckles on the sling into the pins on the mounting bracket (see chapter 4). Use on vehicle page 10).
- ❑ After lifting the person by pressing the button on the remote control (see chapter 4. Using the vehicle page 9-10) release the rear wheel brakes by pushing the release lever with your foot (photos 48,49).

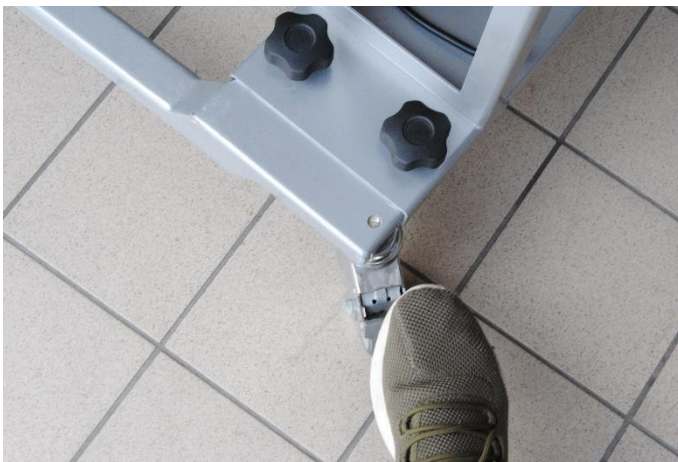


PHOTO 48



PHOTO 49

- It is now possible to move the trolley and the person being transported, by pushing on the two knobs on the trolley (Photo 50,51) the trolley can be steered allowing fairly easy manoeuvres to get the person onto the bed, onto sanitary facilities, etc.



PHOTO 50



PHOTO 51

- At the desired point, the person can be lowered using the remote control (see chapter 4). Use on vehicle page 11).



If the trolley is left unattended, we recommend braking the trolley and, above all, removing the power supply unit to prevent incorrect use.



To remove the SPGH-MDE lift from the trolley and to dismantle it if necessary, simply carry out the above steps in reverse order.

Wall bracket SPGHCS

- After properly securing the SPGHS bracket and SPGHA power supply unit to the wall, follow the instructions for applying and using the SPGH-MDE lift from page 19.

SPGHA power supply

- The power supply provides a runtime of 25-30 operations when fully charged and has a recharge time from fully discharged of about 8 hours.
- The power supply, in order to be recharged, must be linked to its power supply linking the two ways connector. (Photo 52).



PHOTO 52



PHOTO 53

- Photo 52 identifies the correct power supply settings for the specific use of SPGHA.
 - **START/STOP:** Command to start or end the battery charging phase. The battery is charging when the circled dynamic icon in picture 52 is present
 - **BATT:** Allows you to change the type of battery you wish to charge (AGM 12 V Photo 53).
 - **MODE:** Allows a Standard 1A charge (recommended) (Photo 53).



The power supply is fitted with a 10A fuse as shown in photo 54, which can be replaced if it fails by simply opening the bag.



PHOTO 54

What to do if ... (Accessories)



For the SPGH-MDE lift, please observe the instructions on page 14.

1. When inserting the wheeled bases into the SPGHC, there are sliding difficulties.
 - ✔ Check that there are no objects obstructing insertion and that the M10 fixing knobs are disengaged.
2. The wheels of the trolley turn with difficulty.
 - ✔ Check that there are no objects obstructing its movement; remove them if present.
 - ✔ Ensure that the brakes are released.
3. Inserting the lift on the pins, the "S" extension and the sling support bracket are difficult.
 - ✔ Check that there are no objects or impurities obstructing insertion; remove them if present.
4. The power supply unit does not charge.
 - ✔ Check the integrity of the 10A fuse.
 - ✔ Check that the two-way connector is inserted correctly.
 - ✔ Check that the charger is correctly connected to the mains.
 - ✔ Check that the settings on the charger are ok.
5. When pressing the up or down button the Handylift SPGH-MDE person lift does not move
 - ✔ Check that the 10A fuse on the power supply is intact.



If the accessories have a problem other than those listed, it is imperative that you contact your nearest Handytech Centre.

MAINTENANCE TO BE CARRIED OUT EXCLUSIVELY AT HANDYTECH CENTRES

First check: 3 months

- Check the tightness of the bolts securing the support bracket of the "Handylift" SPGH-MDE person lift to the vehicle and any mechanical failure.
- Check the tightness of the screws and bolts of the "Handylift" SPGH-MDE person lift.
- Check the tightness of the screws and bolts of the SPGHC and SPGHC "S" bracket.
- Check the lubrication of the pivot points.
- Visual and functional inspection of the electrical connection between the battery and the system of the "Handylift" SPGH-MDE person lift, checking that there are no oxidations on the electrical contacts.
- Check that the electrical connector connecting the vehicle's system to the "Handylift" SPGH-MDE person lift system is correctly coupled.
- Check that the electrical connector connecting the power supply unit to the battery charger is correctly coupled (SPGHA).
- Check the correct operation of the "Handylift" SPGH-MDE person lift with a full load.
- Check that the charger is working properly (SPGHA).
- Check that the wheels and braking system are working properly (SPGHC).
- Check the harness (abnormal wear on the shoulder straps at the fastening buckles).

Checks to be carried out at 12, 24 months and annually

- Repeat the checks made at 3 km.
- Check the sling straps for wear; if they are abnormally worn, replace it.
- Check the wear condition of the batteries inside the power supply unit (SPGHA).
- Check the wear of the Teflon bushings on the various joints of the system; if they are particularly worn and the coupling play has increased significantly, replace them.



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