

## **MINI-UVL Wheelchair Lift**

OPERATION MANUAL





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## Preface

First of all, thank you for choosing the products produced by Guidosimplex .  
In your daily life, I hope that our company's products will bring you unprecedented independence,  
comfort and ease!

This manual can guide you on how to use and maintain the product. In the process of  
using, if you have any questions, please contact Guidosimplex , we will provide you with timely and  
satisfactory solutions.

The description of this manual is for reference only. If there is any discrepancy with  
the product status, please refer to the actual product.

If you have any questions or need a copy of the manual, please contact Guidosimplex .

The version number of this manual is V1.0.

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## 1. After-sales Service

GUIDOSIMPLEX warrants the original buyers that Guidosimplex will repair or replace any part failed due to defective material or workmanship during warranty period. Details are as follows:

### 1.1 Warranty Period:

- Warranty Period: 12 Month from the delivery date from seller.
- Repair or replace parts failed due to defective material or workmanship during warranty period.
- The parts can be got from Guidosimplex .

### 1.2 After-sales Service

- If there is some problem happened, please call our Quality Department or send e-mail to [infoclient@guidosimplex.it](mailto:infoclient@guidosimplex.it), we will analyze the problem and give solution within 24 hours. If the problem is failed due to defective material or workmanship, we will provide part free for replacement.
- If you need to return some part for repair, please give us advanced notice as possible, and allow reasonable amount of time to repair it. Shipping charges for returning parts to Guidosimplex shall be the responsibility of the customer. Guidosimplex will pay shipping charges when returning warrantable parts to the customer. Guidosimplex will not accept C.O.D. shipments of any returned goods.
- The warranty does not cover: Malfunction or damage to parts caused by accident, misuse, lack of proper maintenance, improper adjustment, alteration, mechanical of vehicle, hazards, overloading, failure to follow operating instruction, or acts of nature (i.e. weather, lightning, and flood).
- Guidosimplex's obligation under this warranty is exclusively limited to the repair or exchange of parts that fail within the applicable warranty period.
- Guidosimplex assumes no responsibility for expenses or damages, including incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply.

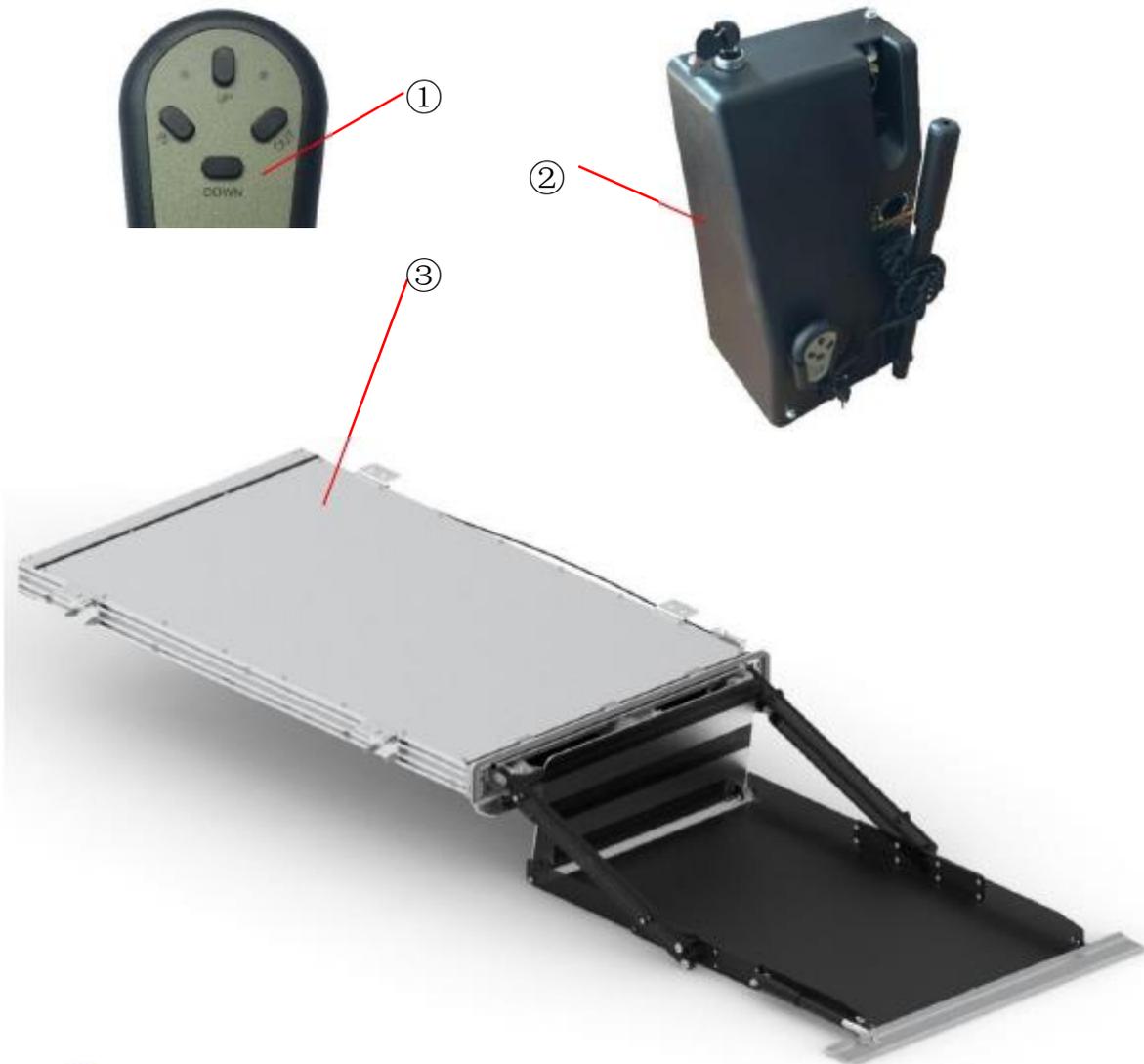
### 1.3 Note and Warning

- Guidosimplex recommends that this product should be inspect very six months, and itis batter to do somemaintenance if necessaryat thattime. Details ofmaintenance can be seen in User Manual.

- This lift has been designed and manufactured to exact specification. It is hazardous to make any modification.
- The warranty is void if: Modification to any parts of this lift is not authorized by Guidosimplex. Moreover, it is dangerous.
- Guidosimplex has no responsibility for any personal injury or property damage due to the operation of lifts that has been modified from our original design. No one or company should alter lift without written authorization by Guidosimplex.

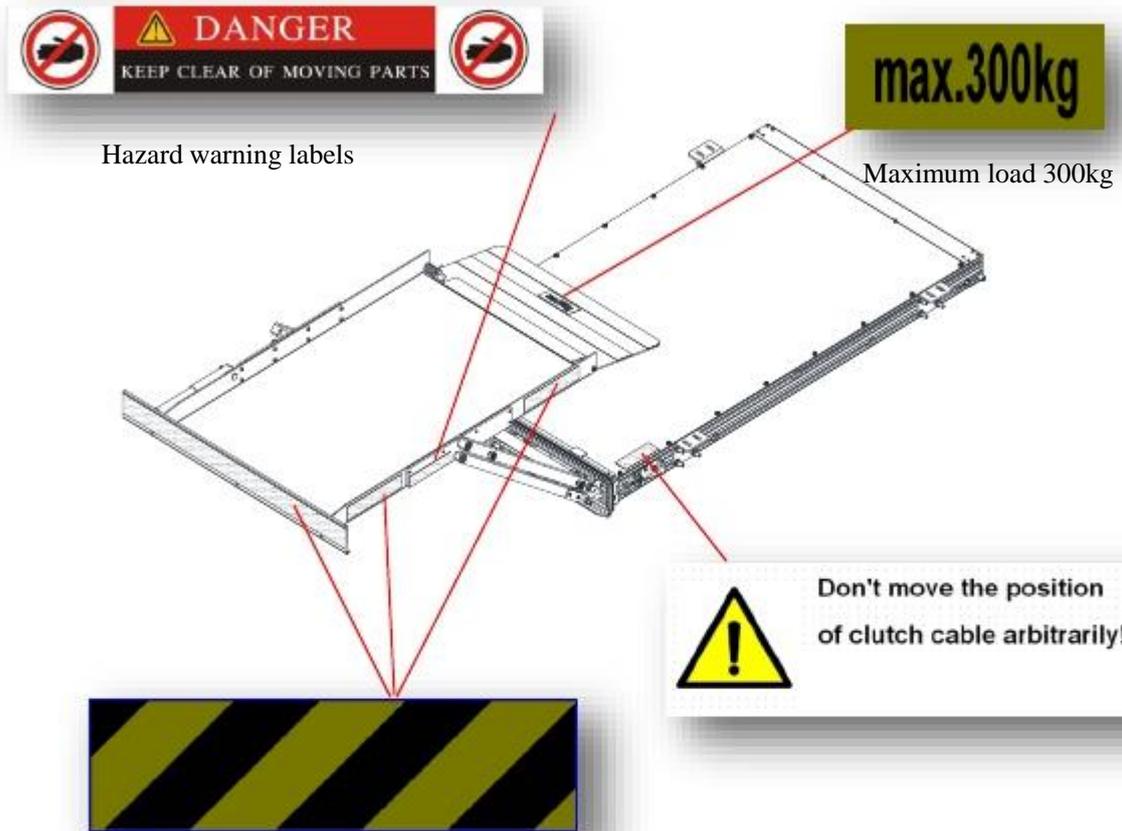
## 2. Product structure introduction and label description

### 2.1 Introduction of product structure



NO.	Name	Description
1	Handheld switch	Control lift operation
2	Hydraulic station	Provide power for lifting mechanism;
3	Lift body	To help wheel chair passengers in and out of vehicles Without obstacles;

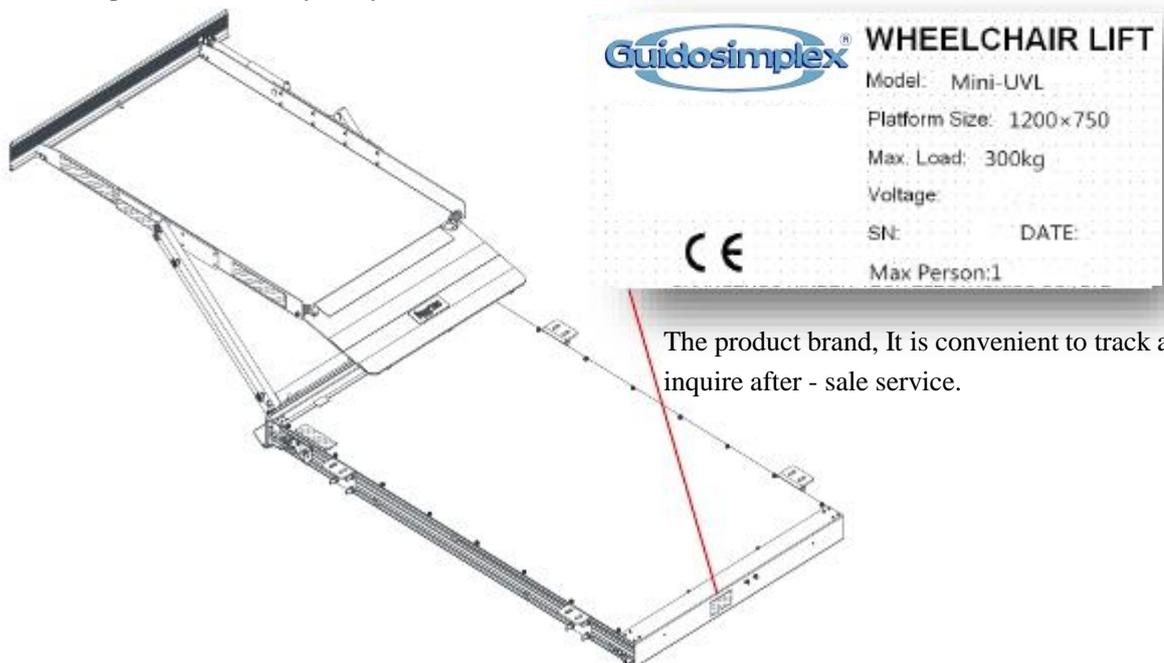
## 2.2 Product identification description



Hazard warning labels

Maximum load 300kg

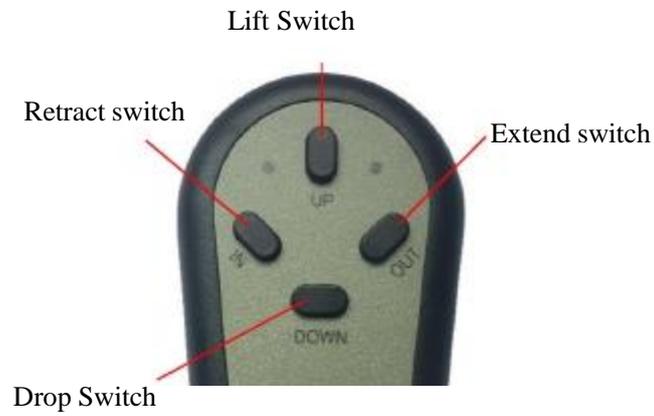
Yellow and black warning labels, a device used to warn pedestrians to stay away from the vehicle.



The product brand, It is convenient to track and inquire after - sale service.

### 3. Electric operation

#### 3.1 Introduction to hand switch and hydraulic station switch



Power switch

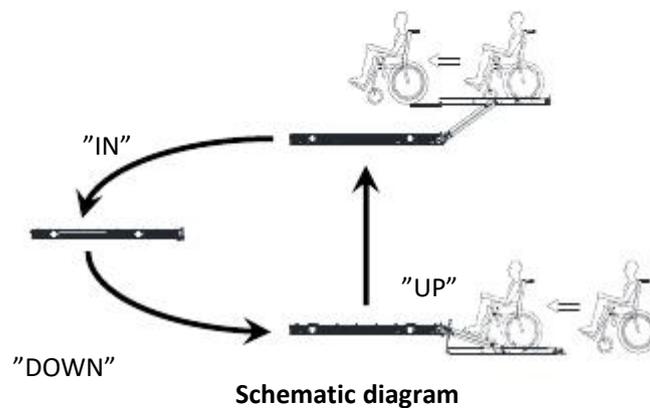


**Press the button for a long time when the  
UVL is running and release button stop!**

## 3.2 Electric operation method

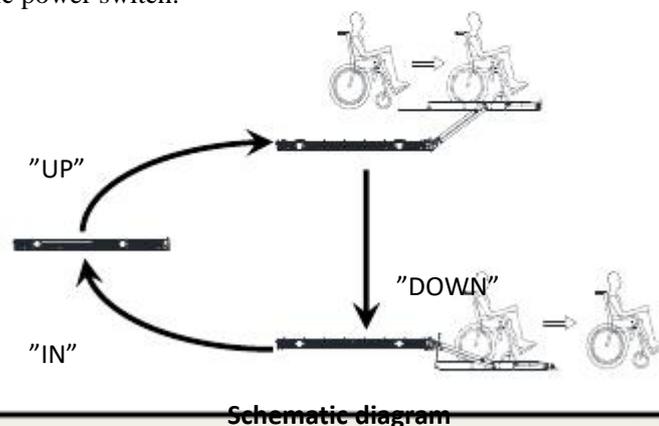
### ➤ Boarding

- Step 1: Turn on the hydraulic power switch, Long press the “DOWN” switch until the platform decline to the ground and the front flap is fully open.
- Step 2: Wheelchair passengers board the lift platform and pull the wheelchair handbrake.
- Step 3: Long press the “UP” switch until the platform lift to the high position.
- Step 4: Wheelchair passengers release the handbrake and enter the vehicle.
- Step 5: Long press the “IN” switch until the UVL reach the retracted position, turn off the hydraulic power switch.



### ➤ Getting off

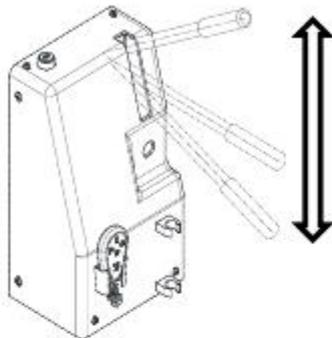
- Step 1: Turn on the hydraulic power switch, Long press the “UP” switch until the platform lift to the high position.
- Step 2: Wheelchair passengers board the lift platform and pull the wheelchair handbrake.
- Step 3: Long press the “DOWN” switch until the platform decline to the ground.
- Step 4: Wheelchair passengers release the handbrake and enter the vehicle.
- Step 5: Long press the “IN” switch until the UVL reach the retracted position, turn off the hydraulic power switch.



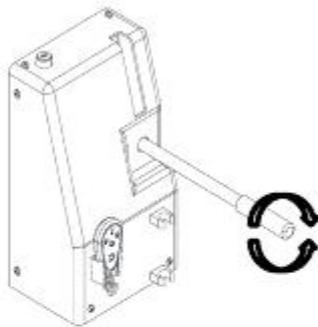
**After entering the platform, please make sure to pull the wheelchair handbrake to avoid affecting the ride experience!**

## 4. Manual emergency operation

### 4.1 Hydraulic station

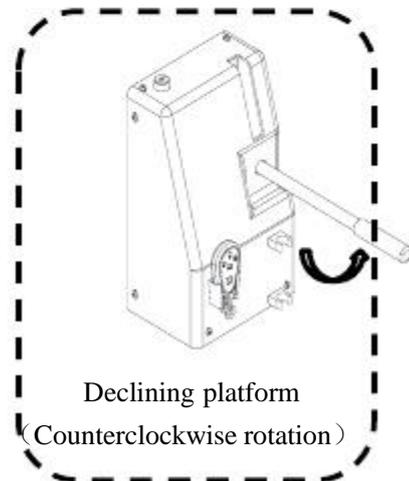
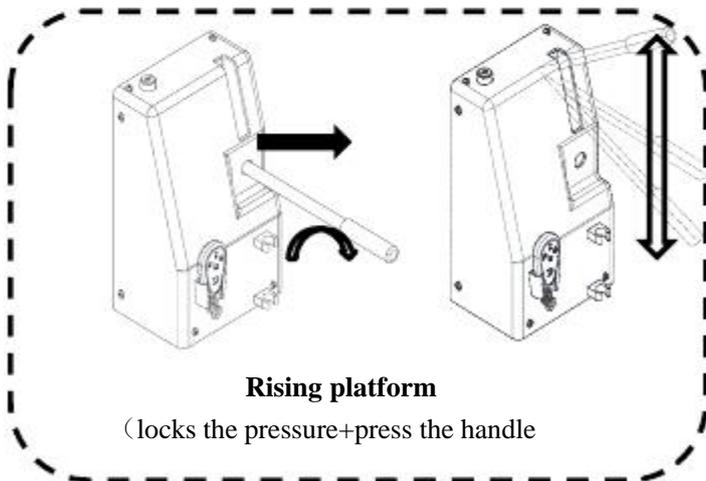


Insert the manual operating handle into the manual pump hole, press the handle repeatedly as shown, provide power for hydraulic mechanism.



Insert the manually operated handle into the hydraulic valve knob. Counterclockwise rotation will relieve pressure, Clockwise locks the pressure.

### 4.2 platform lifting

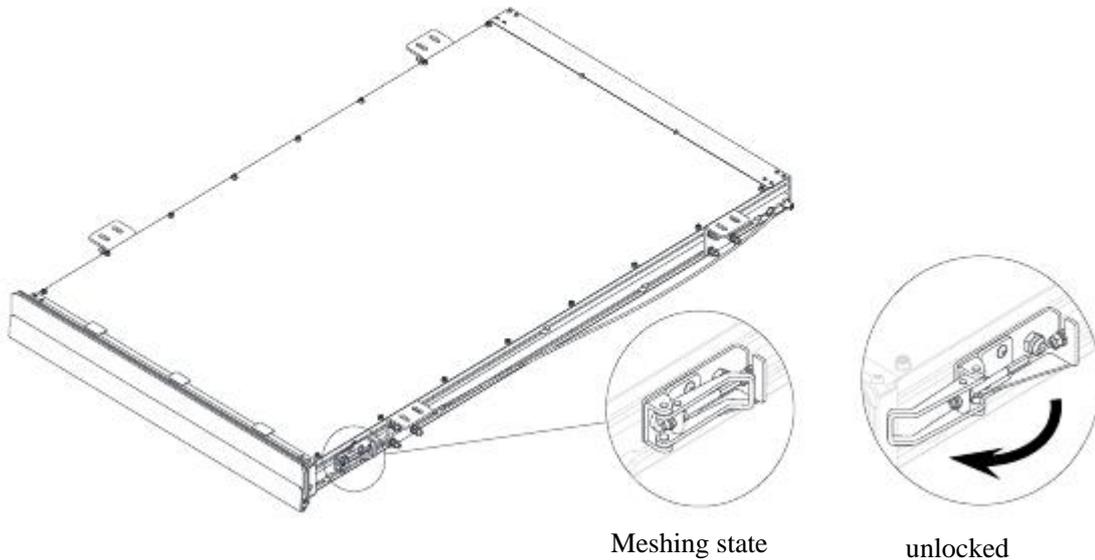


**Manual platform lifting needs to operate under no-load conditions!conditions!**

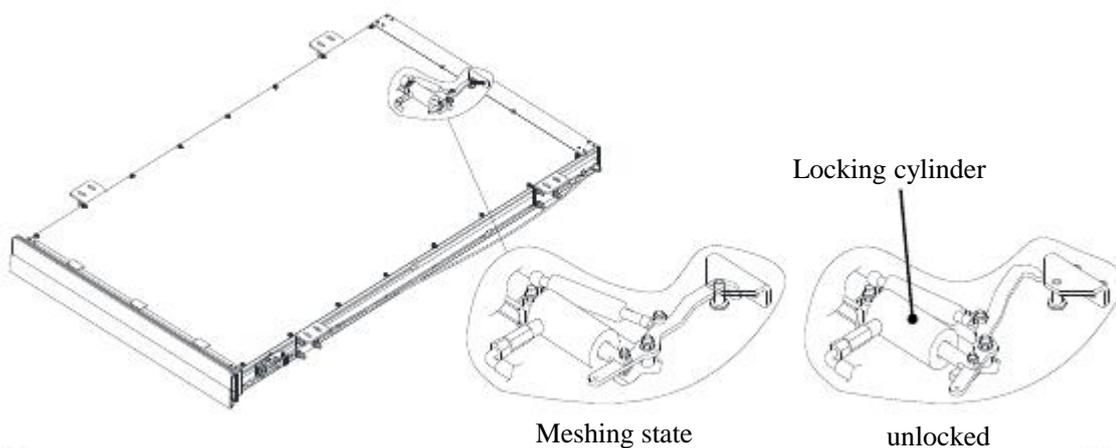
### 4.3 Lifting mechanism in and out of the housing

Manually operate the lifting mechanism in and out of the shell, and three conditions need to be met simultaneously:

- 1) The clutch must be unlocked, it can be unlocked and meshed by manual handle;

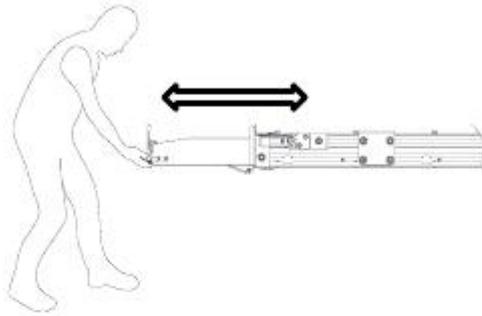


- 2) The internal mechanical lock hook must be in the unlocking state, the oil supply can be manually operated by the hydraulic station (by pressing the lever twice) to make the lock cylinder open the lock hook to unlock; Conversely, manual operation of hydraulic station pressure relief can achieve mechanical hook locking.



**When manually operating the hydraulic station to unlock the mechanical lock hook, stop pressing the lever after unlocking!!**

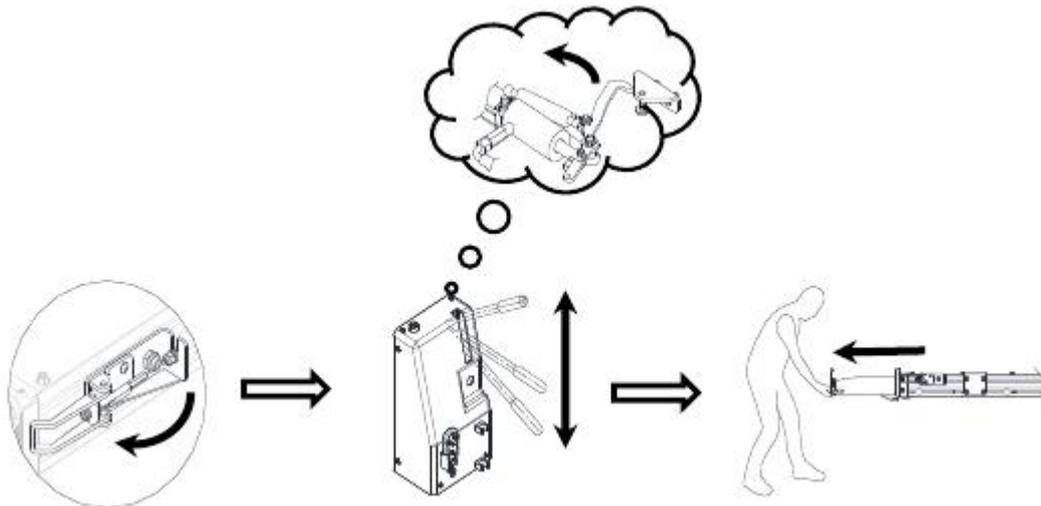
- 3) After the above two points are satisfied, hold both hands on the lower side of the front damper, pull the lifting mechanism out of the housing;



**Manually pull out the lifting mechanism:**

Follow the steps shown below

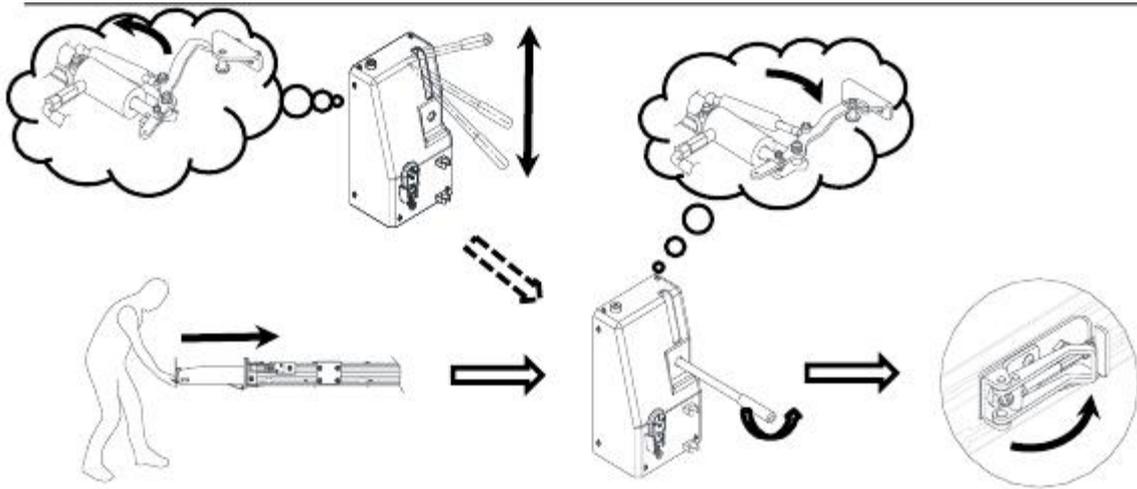
- ①Unlock the clutch handle;
- ②Unlock the internal mechanical lock hook;
- ③pull the lifting mechanism out;



**Manually remove the lifting mechanism:**

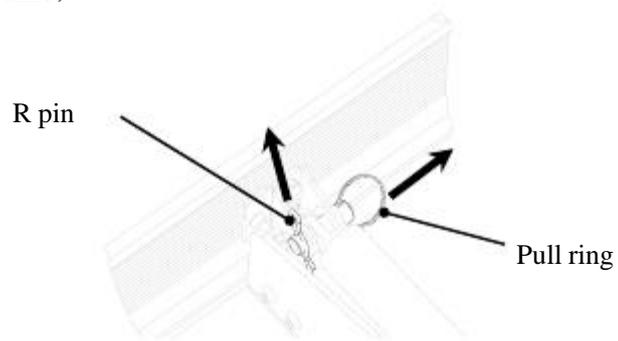
Follow the steps shown below

- ①When the platform is in the horizontal position, Manually push the lifting mechanism fully into the housing; If the institution is not fully recovered, Please unlock the internal lock hook and push the lifting mechanism again;
- ②Lock internal mechanical lock hook;
- ③Lock the clutch handle;



#### 4.4 Open the front baffle

- ① Pull the R pin along the direction of the arrow;
- ② Pull the pull ring to remove the pin shaft to open the front baffle;



## 8. Operate through mobile APP

The product can be controlled via mobile APP, the pairing process of users' mobile phone and the device is as follows:

- ① Download the mobile APP from our website or scan the QR code to download;
- ② Reset the platform, when the platform is retracted, Hold the switch "UP" and "DOWN" keys DOWN for 10s simultaneously, The buzzer gave a long beep;
- ③ Open the APP and click the menu bar in the upper left corner (See figure 5-1-1) ;

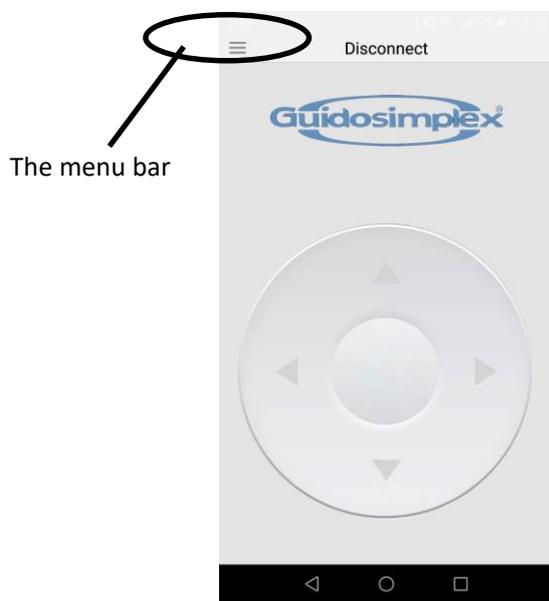


figure 5-1-1

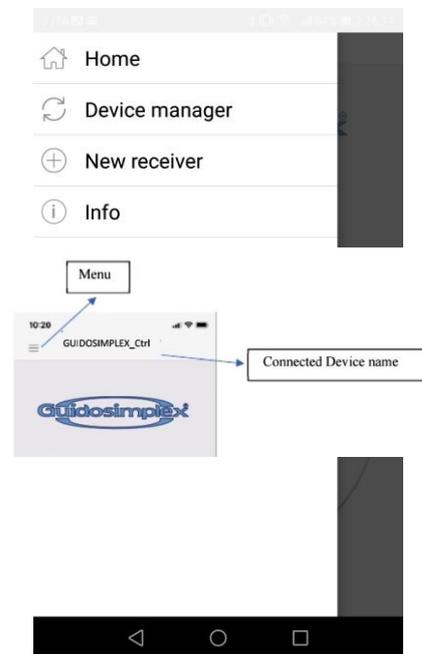


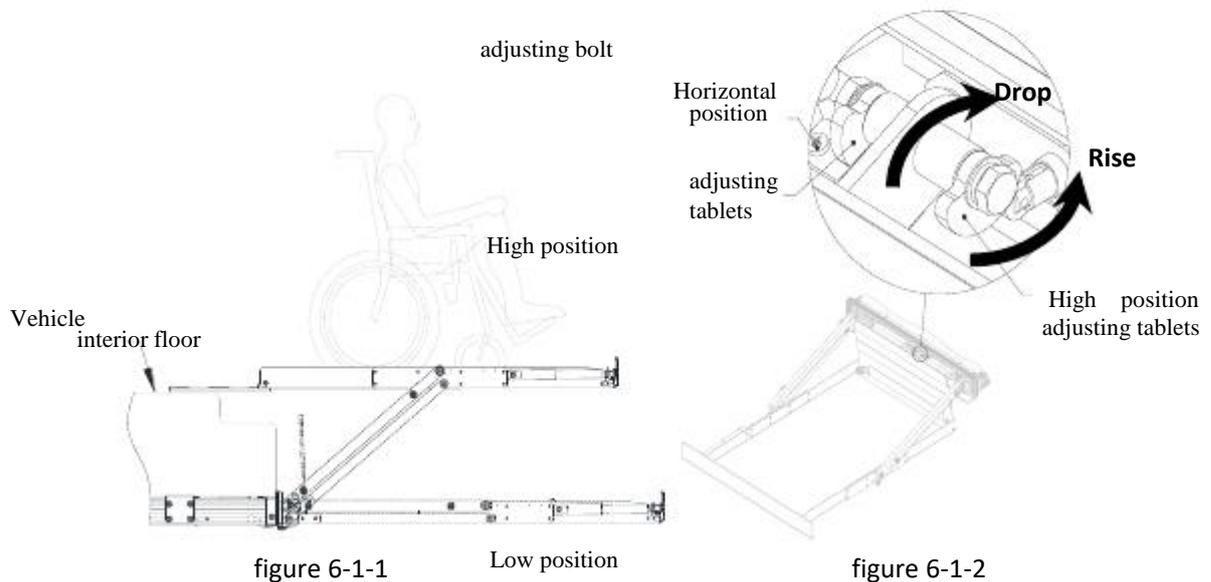
figure 5-1-2

- ④ Click New receiver and click the device that starts with Guidosimplex (See figure 5-1-2) ;
- ⑤ Matching complete; After the pairing is completed, it can be used normally. The 4-key button in the APP has the same function as the handheld button; The next time when you open the APP, the phone will connect with the device automatically or the user can manually click the device manager to connect the device he wants. No need to reset the platform.

## 9. Equipment debugging

Step 1: Check whether the platform is running smoothly, If there is abnormal noise or obvious stall in operation, Please check whether the four lifting anchors of the hoist housing are on the same plane.

Step 2: Check the height of the lifting platform is matched with the floor of the car interior, The customer can take a wheelchair to the lift platform. When the platform is lifted to a high position, the back plate can be flipped to the basic level of the vehicle floor (As shown in figure 6-1-1); If the high position does not match the floor of the car interior, Refer to figure 6-1-2 for fine-tuning high position adjustment tablets.



Step 3: Check if the platform is blocked when it begins to enter the shell in horizontal position, If blocked, adjust the level adjusting bolt (See figure 6-1-2) , turn the screw clockwise, then the horizontal position will drop, otherwise it will rise.

Step 4: Test the lift with 125% (375kg) of rated load to check the strength of the installation points.

## 7. Daily maintenance

### 7.1 Equipment cleaning

Regularly clean the equipment surface with neutral cleaning liquid (such as dish washing liquid and car washing liquid). It is necessary to completely dry the surface moisture to protect the spray layer surface. Cleaning is especially important in winter or in areas containing salt.

### 7.2 Equipment maintenance

Users can regularly carry out maintenance according to the contents of the maintenance schedule. The hydraulic oil added by the product is I-hv46 low-solidification anti-wear hydraulic oil. If the ambient temperature is too low, the suitable hydraulic oil can be selected according to the parameters listed in the table below.

Hydraulic oil parameter list							
Name	ISO Viscosity level	Motion viscosity mm <sup>2</sup> /s			Flash point(°C)	Pour point(°C)	Viscosity index
		100°C	40°C	50°C			
HM anti-wear hydraulic oil	32	/	28.8~35.5	/	160	< -15	>95
	46	/	41.4~50.6	/	180	< -9	>95
	68	/	61.2~74.8	/	180	< -9	>95
HV grade low condensate anti-wear hydraulic oil	32	/	28.8~35.5	/	160	< -33	>130
	46	/	41.4~50.6	/	180	< -33	>130
HS grade ultra-low condensate anti-wear hydraulic oil	32	/	28.8~35.5	/	160	< -45	160
	46	/	41.4~50.6	/	180	< -39	180

Maintenance schedule	
Key point	description
Daily maintenance inspection (10-20 working cycles)	
The lift is in full recovery position	
Fixed bracket	Check whether the bracket of the lift is damaged
The platform is fully extended	
Extend and retracted	<ol style="list-style-type: none"> <li>1) Check for noise while running</li> <li>2) Check whether the full extension point of the lift and the retracted point are in the factory position;</li> </ol>
Important mounting shaft	<ol style="list-style-type: none"> <li>1) Check whether the important connecting shafts between the lifting frame, platform and moving frame are displaced and damaged, and check whether the set screws used for shaft relaxation are normal;</li> <li>2) Check all R pins, clamps, etc. for damage and in normal working position;</li> <li>3) Check whether the pin shaft on the hydraulic cylinder is installed properly and is damaged;</li> </ol>
Platform and platform connection point	<ol style="list-style-type: none"> <li>1) Check whether the upper and lower movement process of the platform is normal without hindrance;</li> <li>2) Check whether all welding positions on the lift have no abnormal cracking;</li> <li>3) The connecting parts (bolts, nuts, etc.) between the platform and the moving frame work normally without loosening;</li> </ol>
The platform rises to level with the floor of the vehicle	
Back flap	Check that it is working properly during the running process
The platform decline to the ground	
Front flap	Check that it is working properly during the running process
The platform retracted	
Platform level	Check whether the platform can be retracted smoothly;
Weekly maintenance inspection (140-180 cycles)	
Drive unit	Check that the pinions and pinions on both sides of the platform mesh smoothly during the running process;
3 months maintenance inspection (900-1000 working cycles)	
Hydraulic oil level	Check whether the oil level of hydraulic station is above the specified scale. If it is insufficient, add it in time.
1 year maintenance inspection (360-4000 working cycles)	

Drive gear and rack	<ol style="list-style-type: none"> <li>1) Check whether the rack fixed bolts on both sides are loose;</li> <li>2) Check whether the bolts on both ends of the driving gear are loose;</li> </ol>
Hydraulic station	<ol style="list-style-type: none"> <li>1) Check the oil level of the hydraulic station, and select the appropriate hydraulic oil to add according to the hydraulic oil parameter table;</li> <li>2) Check whether there are abnormal conditions such as rupture of hydraulic tubing;</li> <li>3) Check all hydraulic pipe connections for oil leakage and other conditions;</li> </ol>

## 8. Common fault diagnosis and troubleshooting

### 8.1 Platform can extend and retracted normally, but cannot lift normally

**Possible reason 1:** The encoder is out of order due to power failure or low pressure.

**Solution:** Reset the platform, when the platform is retracted, Hold the switch "UP" and "DOWN" keys DOWN for 10s simultaneously, The buzzer gave a long roar. Reset the lift and it will work normally.

**Possible reason 2:** The vehicle voltage is too low.

**Solution:** The car battery is charged

**Possible reason 3:** Hand switch keypad malfunction.

**Solution:** Contact after sales to replace the hand switch.

### 8.2 Platform cannot be normally retracted outside

**Possible reason 1:**The encoder is out of order.

**Solution:** Hold the switch "UP" , "DOWN", "IN" and "OUT" keys DOWN for 10s simultaneously, The buzzer gave a long roar. Reset the lift and it will work normally.

**Possible reason 2:**Hand switch key malfunction.

**Solution:** Contact after sales to replace the hand switch.

### 8.3 Platform running will be abnormally stopped

**Possible reason 1:** The buzzer long sing

**Solution:** Check for obstructions within range of motion.

**Possible reason 2:** If the buzzer chirps three times, it is the motor fault.

**Solution:** Contact the after-sale service for repair.

**Possible reason 3:** Hand switch key malfunction.

**Solution:** Contact after sales to replace the hand switch.

**Attachment: After-sales service card**

<b>OWNER INFORMATION</b>			
Name		Add	
Tel		Fax	
Zip Code		E-mail	
<b>PRODUC TIFORMATION</b>			
Product		Model	
Quantity		SerialNO.	
Place of Purchase		Date of Purchase	
		Owner Signature:	

**【NOTE】**

- All information should be filled by customer.
- Customer should fill the registration truthfully after purchasing this lift. This Owner Registration Card should be given to the dealer or posted Guidosimplex directly.
- After Guidosimplex or the authorized dealer receive Owner Registration Card, the follow-up survey and after-sales service will be performed in time.
- Guidosimplex is not responsible for the any loss due to the situation that the customer do not give the Owner After-sales service card to Guidosimplex or the authorized dealer so that the follow-up survey and after-sales service cannot be performed timely.
- If you want to learn more products, please scan the qr code below.





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