

# Evolution

Limited Use/ Limited Application  
Low Rise Elevator

# Owner's Manual



National Wheel-O-Vator  
A Division of ThyssenKrupp Access

# Evolution

## LU/LA (Limited Use/Limited Application) Low Rise Elevator

National Wheel-O-Vator would like to thank you for choosing the Evolution LU/LA Low Rise Elevator.

### **What you should know about the Evolution.**

Your Evolution was acquired through a National Wheel-O-Vator dealer. The normal operation and function of your elevator's features will be described and demonstrated to you. We recommend that you obtain a scheduled maintenance agreement from your dealer in order to increase the longevity and reliability of your investment. Scheduled maintenance should be performed every 6 months. Any warranty claim may be denied due to improperly maintained equipment.

### ***Operating Components:***

**Elevator Controller:** The elevator is controlled by a microprocessor located in the machine room.

**Drive System:** Your elevator is equipped with a 1:2 Roped Hydraulic drive with a 2 speed valve and a 5 hp submerged motor.

**Car Control Buttons:** These buttons are located inside the car on the car operating panel(COP). Press and release a floor number in order to move the elevator to the desired floor. The button will stay lit until it reaches the floor.

**Hall Call Buttons:** These buttons are located on the outside of each hoistway door. Press and release the call "Up" and/or "Down" button to tell the elevator which direction you want to travel. The button stays lit until the elevator reaches your floor.

**Keyed In-Car Stop Switch:** This switch is located on the COP. In the event of an emergency, it stops the elevator from moving.

**Emergency Alarm Button:** This button is located on the COP. The button sounds an alarm when pushed.

**Door Open Button:** This button, when pushed and released, opens the automatic car and hoistway doors while the car is at a landing.

**Full Height Safety Light Screen:** This screen detects obstructions in the doorway and prevents the doors from closing.

**Telephone:** Installing a telephone in the car is required by code for emergency purposes.

## Helpful Hints

*If the elevator will not move:*

1. Check to see that all hoistway doors are closed. Any door slightly open will prevent operation of the elevator.
2. Verify that car doors are completely closed.
3. If the elevator is equipped with a keyed switch, make sure the key is turned to the “on” position in the control being used.

### Hydraulic battery backup

*If power failure occurs while elevator is in use:*

1. Elevator will stop.
2. Emergency car light automatically turns on.
3. The elevator will descend to the lowest landing.
4. The display will indicate battery lowering operation.
5. The car door will open once and close after a predetermined time with battery power.
6. The door will only reopen by pushing the door open button in the COP.

*If power failure occurs while elevator is at rest:*

1. Emergency car light automatically turns on.
2. If the elevator is not at the lowest landing, it will descend to it.
3. The display will indicate battery lowering operation.
4. The car door will open once and close after a predetermined time with battery power.
5. The door will only reopen by pushing the door open button in the COP.

## Standard Operation:

- Press the “Up” or “Down” button. The car will come to the landing and/or open the door.
- Upon entering the car, press the desired floor(s) on the COP.

- The car may self adjust up or down when at a floor to automatically stay aligned with the floor when loading or unloading the car.

## Manual Lowering:

- The manual lowering of an unoccupied elevator should only be conducted by trained personnel in the course of routine maintenance and repairs.
- If a malfunction occurs which prohibits a car’s occupant from effecting a manual release of the door lock and exiting the car safely, trained personnel or professional emergency personnel must be contacted immediately.
- The electrical service disconnect(s) located in the elevator equipment room/area, must be switched to the off position before manually lowering the car. The off position may be verified by closely observing the disconnect’s labeling. The disconnects are lockable in the off position.
- Opening the circuit breaker that supplies the disconnect will not deactivate all of the elevators circuits.

## Manual Lowering Device:

The elevator can be lowered manually by turning the red emergency down valve counter-clockwise and holding it until the car reaches the desired level. This red valve can be found on the side of the hydraulic control valve.



Emergency Down Valve

### ***Emergency Operation:***

- If the elevator has an interruption in its primary power supply, it will automatically default to the battery backup system (if so equipped).
- If the 115 volt supply is interrupted, the overhead car light turns off, and the 24 volt light is illuminated.
- If the 230 volt supply is interrupted, the lifting system is disabled. The 24 volt battery system will power the elevator's processor, call buttons, COP, power door operator, emergency stop/ alarm, and the down leveling low speed hydraulic valve or the down travel functions.
- If the car is in motion, it will stop its current motion and descend to the lowest landing.
- No action is required when power is restored. The elevator will change modes automatically.

### ***Using the Interlock Emergency Key:***

**WARNING - Only in the case of an emergency should the hoistway doors be manually unlocked and opened.**

- Switch main disconnect to off.
- Remove key (see Figure 1) from control box cover and insert the key into the key hole, located near the top of the door.
- Gently turn the key counterclockwise to release lock and hold.  
(GAL type - see Figure 2)
- Slowly slide hoistway door open.
- Before leaving the hoistway entrance, make sure the hoistway door is closed and locked.

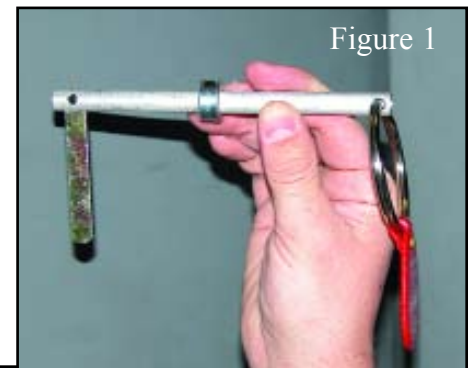


Figure 1

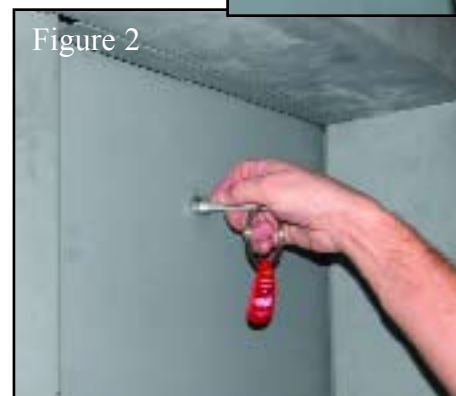


Figure 2

It is recommended that you keep a list of emergency phone numbers near the phone in your elevator cab. In the unlikely event the elevator stops between floors, use the phone in the cab to call for assistance. Pushing the alarm button will ring the emergency bell and alert any person in the proximity of the elevator.

## ***Maintenance and Precautions:***

1. Do not attempt to enter the hoistway or service components yourself. Call your authorized installation dealer for professional assistance.
2. Do not use harsh chemicals or flammable products to clean the elevator's finished surfaces or equipment controls.
3. Depending on cab finishes, mild cleaning agents or polishes should keep your Evolution looking like new.
4. This is a passenger elevator. Do not exceed the 1,400 lb weight capacity or use it for unintended purposes. For example: heavy furniture or freight should not be transported.
5. Under no circumstances should you attempt to by-pass safety features such as, but not limited to: door locks, gate switches, pit or top of car safety switches, or slack rope safeties. They are installed to comply with codes and protect you from personal injury.
6. To maintain reliable operation, routine service should be scheduled with your servicing dealer.

*Please take a moment to read the warranty and complete the attached Product Warranty Registration Card. Any comments you care to provide will assist us in our continuing quest for product excellence.*

### **Manufacturer's Limited Warranty** ***Evolution LU/LA Low Rise Elevator***

National Wheel-O-Vator, a division of ThyssenKrupp Access, warrants the Evolution LU/LA Low Rise Elevator for two years to the original purchaser only. The warranty commences from the date of shipment. The Evolution Elevator shall be free of defects in material and workmanship. The warranty card must be returned to National Wheel-O-Vator within 30 days from the date of original purchase in order for this Limited Warranty to go into effect. This Limited Warranty will not be applicable if the Evolution Elevator has not been installed by a National Wheel-O-Vator factory authorized dealer.

No warranty is extended, expressed, or implied whether of merchantability of fitness for a particular purpose after expiration of two years from the date of the original shipment of the unit. National Wheel-O-Vator and its dealer shall not be liable for any consequential, special, or incidental damages arising out of the purchase or use of the unit resulting from a breach of the Limited Warranty or any implied warranty. The limit of liability to National Wheel-O-Vator and its dealer hereunder shall be the unit's purchase price. In states where limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages or legal remedies, the above mentioned limitations may not apply.

When making a claim, immediately send the dealer who sold you the unit a notice of your claim. All claims must be received within the warranty time period. Any parts with defects in materials or workmanship will be replaced without charge. This is a materials only replacement. Labor and /or service charges incurred in the repair or replacement of a defective part are not included in the Limited Warranty. All parts used to replace defective materials must be genuine National Wheel-O-Vator parts in order to be covered by the Limited Warranty.

*The following are examples of items not covered by this Limited Warranty:*

1. Damage during shipment, which is the responsibility of the carrier.
2. Damage due to misuse, neglect, improper assembly, installation, operation, care or maintenance.
3. Damage due to fire, floods or other acts of God or ordinary wear and tear.
4. Minor mechanical adjustments such as tightening of nuts, bolts and screws.

In the event you have questions regarding features or operation of your Evolution, please contact your authorized dealer first. National Wheel-O-Vator supports its dealer network with expert technical, engineering, and sales personnel. The best way to show your appreciation for this fine LU/LA elevator is to demonstrate it to your friends or tell your colleagues about it.



Please fill out the Dealer Information box below and keep for your records.

<b>Dealer Information</b>	
Name:	_____
Address:	_____ _____
Telephone Number:	_____
Serial Number	_____

Please contact your local authorized National Wheel-O-Vator dealer listed above for information concerning the operation and maintenance of your elevator.