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KEEP THIS OWNERS MANUAL IN VEHICLE

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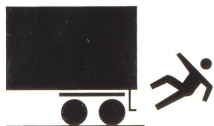
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1. Unit information

Doorlift serial number _____
Dealer _____
Installation date _____
Door type _____
Door size _____
Door serial number _____

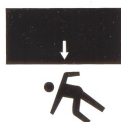
2. Safety guidelines

Warning



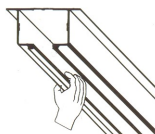
Slipping, tripping or falling on or of the floor of the lorry's goods compartment can cause injury.

Attention: Risk of injuries!



Nothing should be in the range of the shutter door when it is moving.

Attention: Risk of injuries!



Never put your fingers into the track of the door or into the profile of the doorlift.

Safety guidelines

For problem-free operation of the DoorLIFT, the lorry's shutter door must always be kept in good condition.

Before using the DoorLIFT:

1. Check if all the shutter doors components are firmly in place. Loose parts must be fixed or replaced if necessary.
2. Check the lorry's shutter door is working properly.

When using the DoorLIFT:

1. No obstacles are allowed in the range of the shutter door when it is moving!
2. If the door can be locked or bolted, do not forget to unlock or unbolt it.
3. Check the movement of the DoorLIFT both on opening and closing. If the DoorLIFT runs unevenly, investigate the cause and repair it if possible.
4. Replace damaged parts as quickly as possible.
5. Recurring stoppages or problems must be sorted out as quickly as possible by people with the appropriate training. Do not attempt to resolve problems yourself if you do not have the proper training. Electronic equipment requires specialised knowledge.
6. Take care that the rails in the doors range of movement are not blocked.

After using the DoorLIFT:

1. The door should be closed properly before driving away.
2. Never drive with an open door; this will damage the DoorLIFT.

Maintenance:

1. Damaged, loose or missing parts should be repaired or replaced by skilled personnel. You should have checked the DoorLIFT at least twice a year.
2. When repairing the DoorLIFT you should always disconnect the system from the power supply.

Attention: Electronic equipment requires specialised knowledge!

3. Do not lubricate the DoorLIFT.
4. Clean using a damp cloth. Do not use any volatile substances as static electricity may ignite them and causes an explosion.
5. Use genuine DoorLIFT replacement parts.

3. Control devices

Your DoorLIFT system can be equipped with several different controls, which aren't standard provided by the DoorLIFT dealer.

| Item | Description | Function |
|------|--------------------|---------------------------------------|
| 1 | Remote control | Up/down automatic |
| 2 | Push button single | Up/down automatic |
| 3 | Push button up | Up automatic |
| 4 | Push button down | Down automatic |
| 5 | Block function | Automatic close door, block all input |

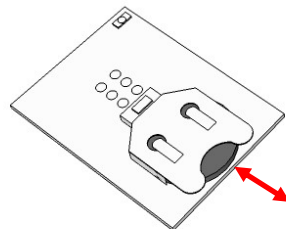
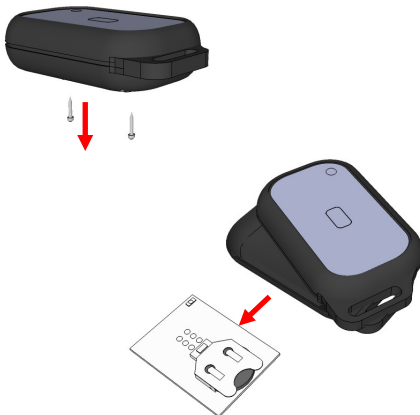
3.01. How does the remote control work

1. As soon you press the remote control, the LED on the control will flash.
2. When all conditions are in right order, the system will:
 - go down, if last known movement is up
 - go up, if last known movement was down
 - stop, if the system is in movement



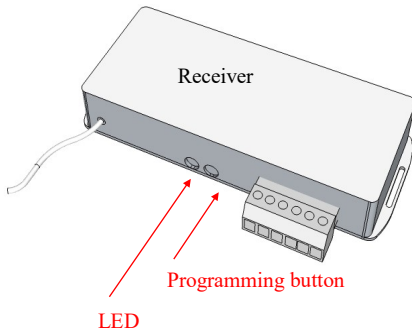
3.02. How to change the battery

Type of battery needed:
CR2032 3V



Be aware of the positive and minus side of the battery.

STEP 3.03 Programming remote control



Remote control

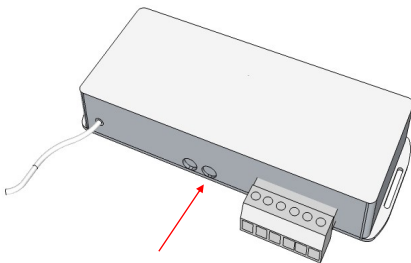
Find the receiver, typically located in the control box of the DoorLIFT system.

Programming new remote control

1. Push the programming button
2. The LED will flash green twice and stay green
3. Push the remote control, the LED will flash twice
4. Wait for 10 seconds and the green LED will turn red
5. You can now use the remote control

Be aware: when there is no power, programming and erasing the receiver will not work.

STEP 3.04 Erase memory of the receiver



Erase the all remote controls from the receiver

1. Push the programming button for 10 seconds
2. Let the button go
3. The LED will flash until the memory is erased.

4. Inspection and maintenance

Maintain the Roll-Up door every 3 months:

1. Lubrication Roll-Up door
2. Balancer maintenance and adjustment
3. Check if all the shutter doors components are firmly in place.

1. Lubricate the roller bearings and shafts, hinge pins and cable drum bearings as per the illustration below.



DO NOT USE GREASE OF ANY KIND

Grease sits on the surfaces and attracts dust, dirt and salt. The recommended lubricant is environmental friendly, WHITING brand EASY-UP spray lubricant available from your local WHITING dealer.

2. Check to make sure the roll-up door is properly balanced.

ALWAYS lubricate your roll-up door, prior to checking the balance of the door.

The DoorLIFT will operate the roll-up door provided a force of no more than 50 pounds to open or close the door. Ensure that the force required to lift the door is equal to the force required to close the door.

- If the door requires more force to open than it does to close, increase the tension on the balancer.
- If the door requires more force to close than it does to open, decrease the tension on the balancer.

Additional info:

Time and the elements affect the tension on the spring that lifts the door. Over time, the spring wire will corrode and loose effective wire diameter. The springs themselves also get tired and loose their tensile strength. An average balancer on a WHITING door will last approximately 15,000 to 25,000 cycles.

Adjusting and maintaining the proper door balance:

CAUTION—work on doors and related parts can be dangerous. It is strongly recommended that repair service work be preformed by persons who have successfully completed appropriate training. If assistance is required, please contact WHITING for a list of qualified service locations.

1. Fully open the roll-up door and push it back towards the front of the trailer approximately 18", this may require the assistance of another person or a spreader bar placed between the header and the bottom panel of the door.
2. Install vice grip pliers into the track at the bottom roller to hold the door in this open position while working on the balancer.
3. The springs should have equal tension, for this reason it is important to count the number of turns either put on or removed from each spring, this is easily don by placing a mark on the winding anchor before doing any adjustments.

4. Insert a 3/8" diameter rod (see illustration) into one of the winding cone and carefully remove the center balancer clamp. Lower the winding bar to add tension or raise the winding bar to remove tension. Insert then a second winding bar into the next hole on the winding anchor and repeat the process until the desired tension is achieved. The amount of tension to be added or removed depends on the type of door, the age of balancer and how far out of adjustment it is. Adjust the springs no more than one half turn at a time.



5. Replace the camp and nuts, remove the winding bars.
6. Remove the vice grip pliers for the track and test the door operation.

5. Maintenance DoorLIFT System

Pre-conditions:

- Maintenance should be performed by qualified (trained) staff.
- Named times are those times that can be actually worked on the system, so no waiting or handling time.
- Maintenance should always be done in combination with maintenance of the shutter door, DoorLIFT not okay or shutter door not okay; complete system not okay.
- Maintenance schedule is based on a daily operation of 40 cycles, 5 days a week. At higher frequency, you may need to do the inspection more often.
- Maintenance schedule is based on a well maintained, well balanced and manual operable shutter door.
- When repairing the DoorLIFT you should always disconnect the system from the power supply.
- DO NOT GREASE OR LUBRICATE THE DoorLIFT. Clean using a damp cloth.
- Use only genuine DoorLIFT replacement parts.

| Maintenance activities | Half-yearly | Yearly |
|---|-------------|--------|
| Check the operation, by open and close the system, with the door attached | X | X |
| Disconnect the system and check if the door is well balanced, by manual operation | X | X |
| Ensure that all parts are properly tightened. Damaged, loose or lost parts should be repaired or replaced | X | X |
| Inspect the aluminum track | X | X |
| Lubricate and test the emergency unlocking system | X | X |
| Perform the shutter door maintenance (see instructions of the shutter door manufacturer) | X | X |
| Check all electrical connections for corrosion and if they are firm | | X |
| Disconnect the motor-unit and take it out of the profile | | X |
| Do a visual inspection of the motor-unit, especially the tooth wheels. | | X |
| Replace the 4 guiding blocks (part number: DL-8001254). | | X |
| Replace the foil and the battery of the remote control (if applicable) | | X |
| Replace the cable of the emergency unlocking mechanism | | X |
| Place service sticker | | X |

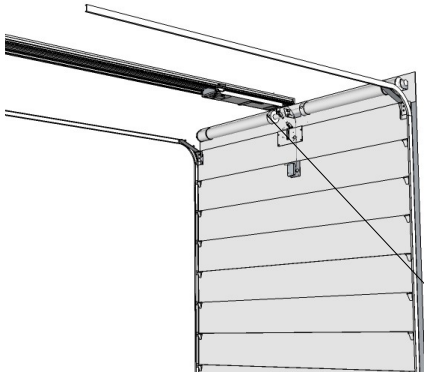
Replace the motor-unit after 5 years or 80.000 cycles

Expected time for servicing a DoorLIFT System, depending on the ease of related matters in combination with maintenance of the shutter door:

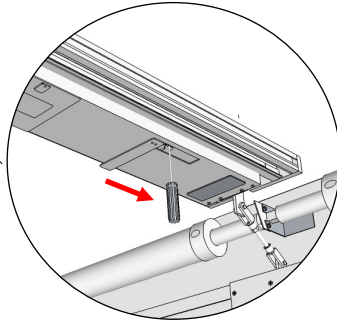
Quarterly : +/- 20 minutes.
Annual : +/- 45 minutes.

Times are excluding waiting and handling time, and without major repairs and doesn't included the shutter door inspection and repairs.

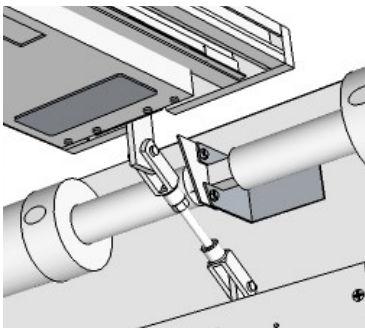
6. Motor unit removal



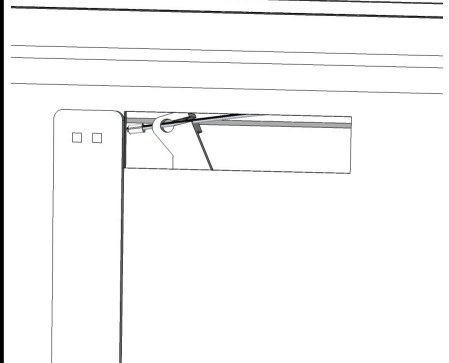
1. Use a screw driver and insert this in the lever, located in the motor unit. Move the lever towards the roll-up door. You are now able to open and close the door by hand.



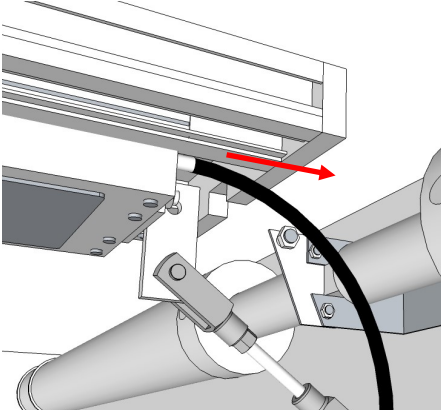
2. Disconnect the motor-unit from the door.



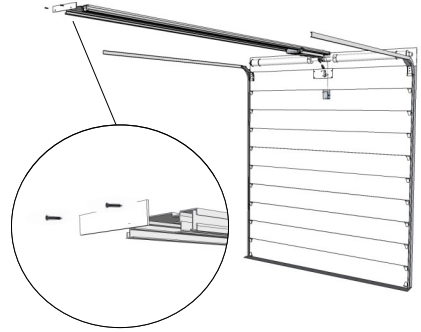
3. Remove the cable from the lever



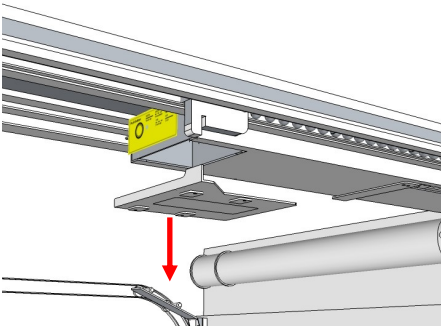
4. Remove the cable out of the motor-unit.



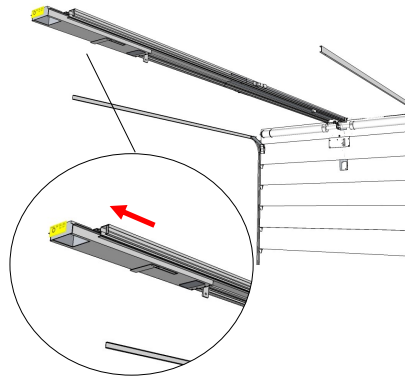
5. Remove the cover from the track.



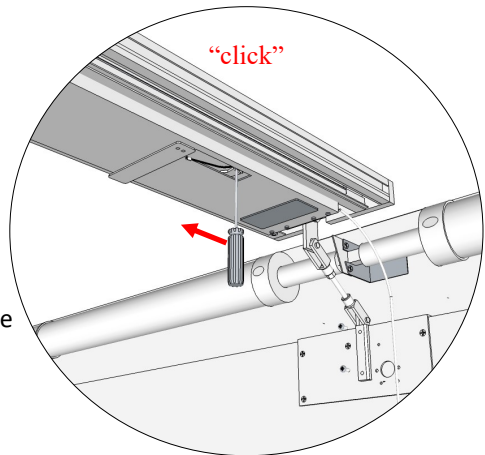
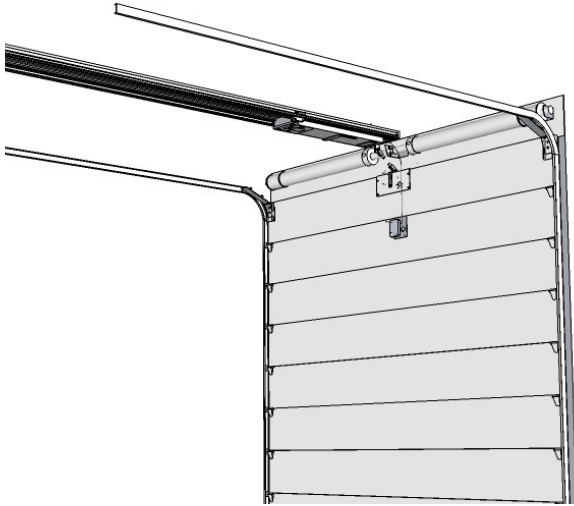
6. Unscrew the rear cover and remove it and unplug the yellow cable.



7. Slide the motor-unit out of the track.



7. How to lock the gears



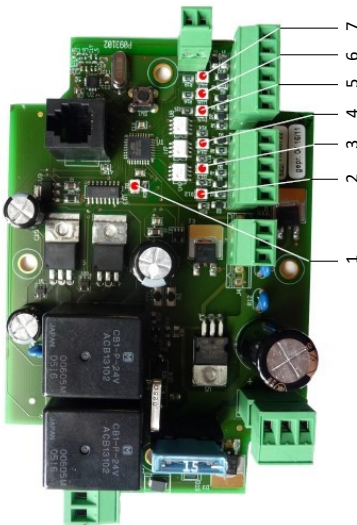
Use a screw driver and insert this in the lever, located in the motor unit. Move the lever away from the roll-up door, until you hear a firm "click"

8. Basic trouble shooting

When your system isn't working properly or not at all, please check the following:

1. Try if a different control device is working.
2. Check the fuse at the battery and on the PCB
3. Use a voltage meter and check the input of the Converter, this should be: 12 or 24 VDC
4. Use a voltage meter and check the input of the PCB, this should be 32 VDC
5. Check if LED 2 is off (this is the block signal)
6. Check if LED 4 is on when the door is fully open (this is the sensor door open)
7. Check if LED 3 is on when the door is fully closed (this is the sensor door closed)
(it is possible to unlock the gears and open and close the door by hand)

Your PCB is equipped with LED's that will light up, as soon the corresponding input is activated. See below explanation.



| LED | Function | Comment |
|-----|-------------------------|--|
| 1 | Processor | Will light up by first power up |
| 2 | Block signal | Will block the door, no control device will work |
| 3 | Sensor door closed | When the door is closed, it will light up. |
| 4 | Sensor door open | When the door is fully open, it will light up. |
| 5 | Switch close door | Control device input |
| 6 | Switch open door | Control device input |
| 7 | Switch open/ close door | Remote control and optional control devices |

Remote control LED indicator



As soon you touch the remote control button, the LED indicator will flash.

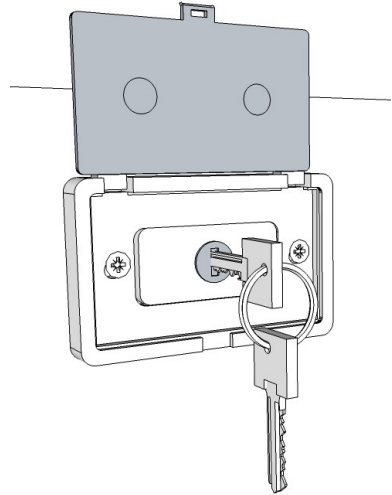
When the LED doesn't flash or illuminates poorly, change the battery.

9. Emergency release

You may be occasionally required to release the DoorLIFT from the door, in order to operate the Roll-Up door manually. DoorLIFT can be released from the drive system in the following way:

Using the exterior EMERGENCY release

1. Insert the DoorLIFT key into the lock cylinder located in the center of the second roll-up door panel, on the outside of the door.
2. Turn the key 90 degrees and pull the lock and connecting cable from the lock cylinder. Pull the lock assembly firmly and the DoorLIFT will be released from the drive system.
3. Reinsert the cable and lock cylinder back into the lock housing on the door. The roll-up door can now be operated manually.



10. Technical specifications

| Description | Value |
|---------------------------|--|
| System | 2 motor drive, |
| Material | Aluminum, Steel and plastic (RoHS free) |
| Shutter height (max.) | 2600 mm |
| Strength (max.) | Electric \leq 35 Kg |
| Total weight | \pm 25 Kg |
| Speed | Non load \pm 195 mm/sec Load \pm 185 mm/sec |
| End switches | Reed contact/magnet |
| Voltage | 32 VDC, \pm 10% * |
| Current | \pm 5 Amp nom.** |
| Duty cycle | 20% (2 min. on/ 8 min. off) |
| Life cycle | 200.000 cycle |
| Maintenance | At least once a year |
| Emergency unlocking | Yes |
| Bottom safety guard | Yes |
| Control options | Switches / remote control |
| Sound level | $<$ 50 db (A) |
| Environmental temperature | -25°C to 70°C / -13°F to 158°F |
| Permitted air humidity | $<$ 50% |
| Recognition | CE |

* 12-24V will be converted to 32V

** Current peaks of 30A possible.