

EN

Instructions for Operating and Maintenance

Series 40 Sectional Garage Doors

Contents

1 About These Instructions.....7
 1.1 Warnings used.....7
2 ⚠ Safety Instructions.....7
 2.1 Intended use.....7
 2.2 General safety instructions.....7
 2.3 Environmental conditions8
3 Fitting.....8
 3.1 Tensioning the springs.....8
4 Operation.....8
 4.1 Operating the door8
 4.2 Locking and unlocking9
5 Cleaning and Care9
6 Inspection and Maintenance9
 6.1 Inspections and maintenance9
7 Malfunctions and Troubleshooting10
 7.1 Surface treatment.....10
8 Dismantling10
9 Declaration of performance.....10

Dear Customer,

we are delighted that you have chosen a quality product from our company.



1 About These Instructions

These instructions are divided into a text section and an illustrated section. The illustrated section can be found after the text section.

These instructions are **original instructions** as outlined in the EC Directive 2006/42/EC. Read and follow these instructions carefully. They contain important information concerning the product. Please pay particular attention to all safety and warning notices.

Keep these instructions in a safe place for later reference!

1.1 Warnings used

	The general warning symbol indicates a danger that can lead to injury or death . In the text, the general warning symbol will be used in connection with the caution levels described below. In the illustrated section, an additional instruction refers back to the explanation in the text.
 WARNING	
Indicates a danger that can lead to death or serious injuries.	
ATTENTION	
Indicates a danger that can lead to damage or destruction of the product.	

2 ⚠ Safety Instructions

2.1 Intended use

This garage door is designed and intended for private use only.

Continuous operation is not permitted.

2.2 General safety instructions

- Fitting, maintenance, repair and dismantling of the Series 40 sectional garage door may only be carried out by specialists (competent persons in accordance with EN 12635).
- In the event of a door failure (sluggish operation or other malfunctions), a specialist must be commissioned immediately for the inspection / repair work.
- The specialist must ensure that the respective national regulations regarding occupational safety are complied with.
- Before the door is put into service, it must be tested to make sure that it is mechanically sound, in perfect working order as well as correctly balanced, making it also easy to operate manually (EN 12604).
- The field of application for Series 40 sectional doors is laid down in EN 13241.

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- When the door is fitted, attention must be paid to potential hazards as defined in EN 12604 and EN 12453.

2.3 Environmental conditions

ATTENTION
<p>Damage due to temperature differences</p> <p>Differences in the inside and outside temperatures may cause deflection of the door elements (bi-metal effect). This may result in damage when the door is operated.</p> <ul style="list-style-type: none"> ▶ Comply with the operating conditions.


The door is intended for the following operating conditions:

Temperature:

- Exterior side -40 °C to +60 °C
- Interior side -20 °C to +60 °C

Relative humidity: 20 % to 90 %

3 Fitting


 WARNING
<p>Danger of injury as the result of structural modifications</p> <p>Changing or removing functional parts may put important safety components out of action. Uncontrolled door travel could occur and persons or objects may be trapped as a result.</p> <ul style="list-style-type: none"> ▶ Do not alter or remove any functional parts. ▶ Do not attach any additional components. The torsion springs are precisely matched to the door leaf weight. Additional components may overload the springs. ▶ If equipping the door with an operator, pay attention to the instructions provided by the manufacturers of the door and operator. Only use the original connections of the door manufacturer!

Before fitting the door, the door opening and the building floor must be completely finished.

Observe the following during fitting:

- Establish a secure connection with the building structure.
- Check that the fixing materials supplied are suitable for the given structural conditions.
- Do not fasten the door system to supporting structural members unless you have obtained the prior approval of the structural engineer.
- Ensure adequate water run-off in the area of the bottom seal and the frame parts, otherwise there is danger of corrosion (see Technical Manual).
- Ensure sufficient drying and ventilation in the building, otherwise there is danger of corrosion.
- The door must be effectively protected before carrying out plastering and paintwork, as splashes of mortar, cement, plaster, paint etc. can damage the door surface.
- Protect the door from caustic, aggressive substances, e.g. nitrous reactions from stones or mortar, acids, alkali solutions, de-icing salt, aggressive paints or sealants. Failure to do so could lead to corrosion.
- ▶ **To ensure simple and secure fitting, please follow the work steps listed in the illustrated section.**

3.1 Tensioning the springs

 WARNING
<p>Danger of injury due to high torques</p> <p>Springs are under high torque stress and may discharge high forces if they are not secured during tensioning.</p> <ul style="list-style-type: none"> ▶ Fix the door leaf to prevent movement before tensioning the springs.


The number of tensioning revolutions specified on the type plate is an approximate value only.

When the springs are tensioned correctly, the moving door leaf has a slight tendency to pull upwards.

- ▶ Each time the door is serviced, the tension of the springs should be checked and, if necessary, subsequently re-adjusted.
- ▶ **Before putting the door into operation for the first time, inspect the door according to the chapter *Inspection and Maintenance!***


4 Operation

4.1 Operating the door

 WARNING
<p>Danger of injury during door travel</p> <p>The sectional door closes to the bottom vertically; persons or objects may be trapped.</p> <ul style="list-style-type: none"> ▶ When in operation, make sure that neither persons, children in particular, nor objects are located within the door's area of travel. ▶ Always keep the opening area of the door clear. ▶ Do not operate the door in strong winds.

The door must only be operated by **suitably instructed** persons. If the sectional door is competently fitted and inspected, it can be easily moved and operated.

4.1.1 Manually operated doors

 WARNING
<p>Danger of injury due to improper operation</p> <p>Persons or objects may be trapped if the door is operated improperly.</p> <ul style="list-style-type: none"> ▶ Only open and close the door using the supplied operating elements; these ensure a controlled, smooth action. ▶ When closing the door, make sure that the latches engage fully and correctly.

4.1.2 Power-driven doors

The automation of a sectional door requires that special safety regulations be observed. Consult your supplier.

4.2 Locking and unlocking

The door is not locked when closed with the grip handle. This is done by using the key or locking lever on the lock.

From outside:

- ▶ Turn the key 360°
 - To unlock: turn the key left
 - To lock: turn the key right

From inside:

- ▶ Slide the locking lever on the lock
 - To unlock: slide it upwards
 - To lock: slide it downwards

5 Cleaning and Care


ATTENTION
<p>Scratches on the panes due to improper cleaning Rubbing the panes causes scratches.</p> <ul style="list-style-type: none"> ▶ Dirt and dust particles must first be thoroughly rinsed off with water. If necessary, only wash with water, a pH-neutral household detergent and a soft, clean cloth.

Clear water is sufficient for cleaning and care. Use warm water together with a neutral, non-abrasive cleaning agent (household detergent, pH value 7) if more heavily soiled. To preserve the surface characteristics, **regular cleaning must be carried out at least every 3 months** (outside of door, seals). The slide area behind the side seals must be kept permanently clean and able to slide.

A variety of environmental influences (e.g. maritime climate, acids, road salt, air pollutants, paint damage) may make additional protective coating necessary (see *Surface treatment* on page 10).


6 Inspection and Maintenance

6.1 Inspections and maintenance

 WARNING
<p>Danger of injury due to defective safety components Important safety components may fail or become defective if not sufficiently inspected and maintained.</p> <ul style="list-style-type: none"> ▶ Have a qualified person perform inspection and maintenance work at regular intervals.

The following inspection and maintenance tasks must be carried out by a specialist in accordance with these instructions, before initial operation and at least once a year.

6.1.1 Inspect all load-bearing components


 WARNING
<p>Danger of injury due to high cable tension and high torques Cables and springs are under high tension and torques. Damaged cables or springs may also cause serious injuries.</p> <ul style="list-style-type: none"> ▶ Fix the door leaf to prevent uncontrolled movement before exchanging damaged cables or springs. ▶ Be particularly careful when exchanging damaged cables or springs.

- ▶ Check load carriers (cables, springs, tracks, supports) and safety devices for breakage and damage, replacing any damaged components as necessary.

Spring safety device

- ▶ Check the effectiveness of the detent pawl and the secure seat of the locking gear (see Fig. 12.3 Spring safety device).

6.1.2 Weight counterbalance

 WARNING
<p>Danger of injury due to uncontrolled door drops If the counterbalance has not been properly adjusted, this may result in an uncontrolled door drop, which could trap persons or objects.</p> <ul style="list-style-type: none"> ▶ Retension the torsion springs.
<p>High torque Springs are under high torque stress and may discharge high forces if they are not secured during tensioning.</p> <ul style="list-style-type: none"> ▶ Fix the door leaf to prevent uncontrolled movement before adjusting the torsion spring shaft.

Check the counterbalance of the door leaf

- ▶ Manually open the door halfway. The door should be able to hold this position.

If the door moves substantially downwards:

- ▶ Retension the torsion springs.

6.1.3 Fixing points

- ▶ Check all the fixing points on the door and the building structure and make sure that all the fastenings are securely seated and, if necessary, retighten.

6.1.4 Rollers and tracks

When the door is closed, the rollers must be easy to turn.

- ▶ Adjust rollers if necessary. Observe the operator fitting notes; they contain details on roller adjustment.
- ▶ Clean tracks, if necessary, **do not grease!**

6.1.5 Hinges and roller holders

- ▶ Oil hinges and roller holders.

6.1.6 Locking cylinders

ATTENTION

Damage to the locking cylinders due to unsuitable cleaning products

Locking cylinders may not be cleaned with agents containing oil or be oiled.

- ▶ Only use specialised care products.
- ▶ Do not use oil or graphite.

6.1.7 Seals

- ▶ Check for damage, deformations and completeness. If necessary, replace.

7 Malfunctions and Troubleshooting

WARNING

Danger of injury due to uncontrolled door movement

If the door malfunctions, uncontrolled door movements may trap persons or objects.

- ▶ In the event of a door failure (sluggish operation or other malfunctions), a specialist must be commissioned immediately for the inspection / repair work.

Once the spring safety device has been activated, the door leaf weight is no longer balanced. Further operation of the door is no longer possible.

Spring safety device

1. Once the spring safety device has been activated, hold the door leaf using a suitable auxiliary tool, then move the spring shaft with a tensioning spindle so that the capture pawl can be released and secured with the security pin.
2. Afterwards, let the door leaf down, release the springs and replace the one that has broken.

7.1 Surface treatment

If you would like to paint the door in a different colour, renovation painting or additional protective painting is required.

7.1.1 Doors with primer-coating

- Gently sand the surface with fine grained sandpaper (at least 180 grain size).
- Clean with water, dry, degrease
- Follow with standard paint for exterior use
- Follow the directions provided by the paint manufacturer

Avoid dark coatings on doors.

7.1.2 Doors with timber infill (Nordic Pine and Hemlock)

Follow treatment instructions for timber doors.

7.1.3 Doors with decor surfaces

- Gently sand the surface with fine grained sandpaper (at least 220 grain size).
- Clean with water, dry, degrease
- Follow with suitable acrylic paint for exterior use
- Follow the directions provided by the paint manufacturer

Avoid dark coatings on doors.

8 Dismantling

Dismantle the door in accordance with these fitting instructions, in the logically correct reverse order.

9 Declaration of performance

Declaration of performance see section 13:
Warranty booklet