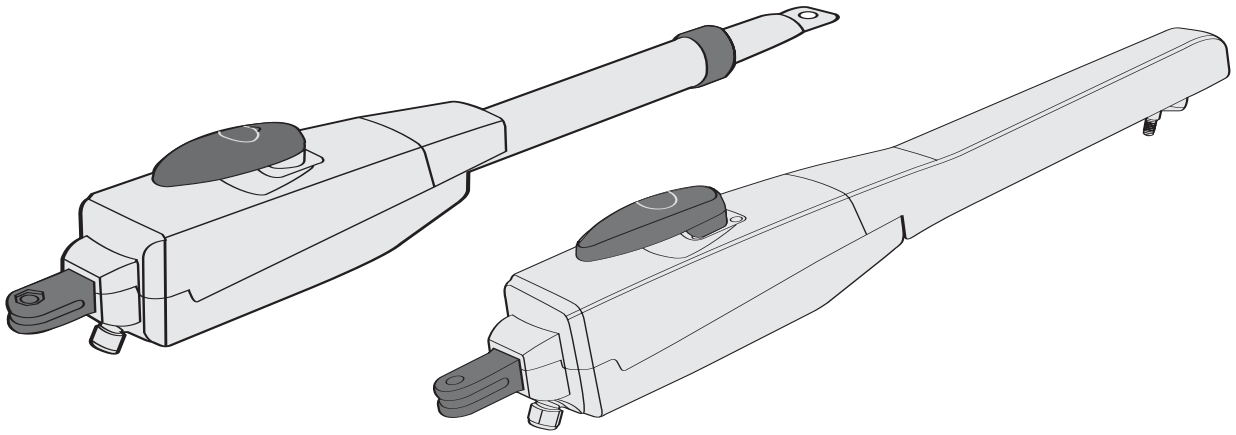
CHAMBERLAIN®

LiftMaster®

PROFESSIONAL



D	Anleitungen	– Automatische Torantriebe Modelle LYN300, LYN400, SCS300 Serie
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PL	Instrukcje	– Automatyczne napędy bram modeli serii LYN300, LYN400, SCS300
RUS	Инструкция	– Автоматические приводы ворот серии моделей LYN300, LYN400, SCS300

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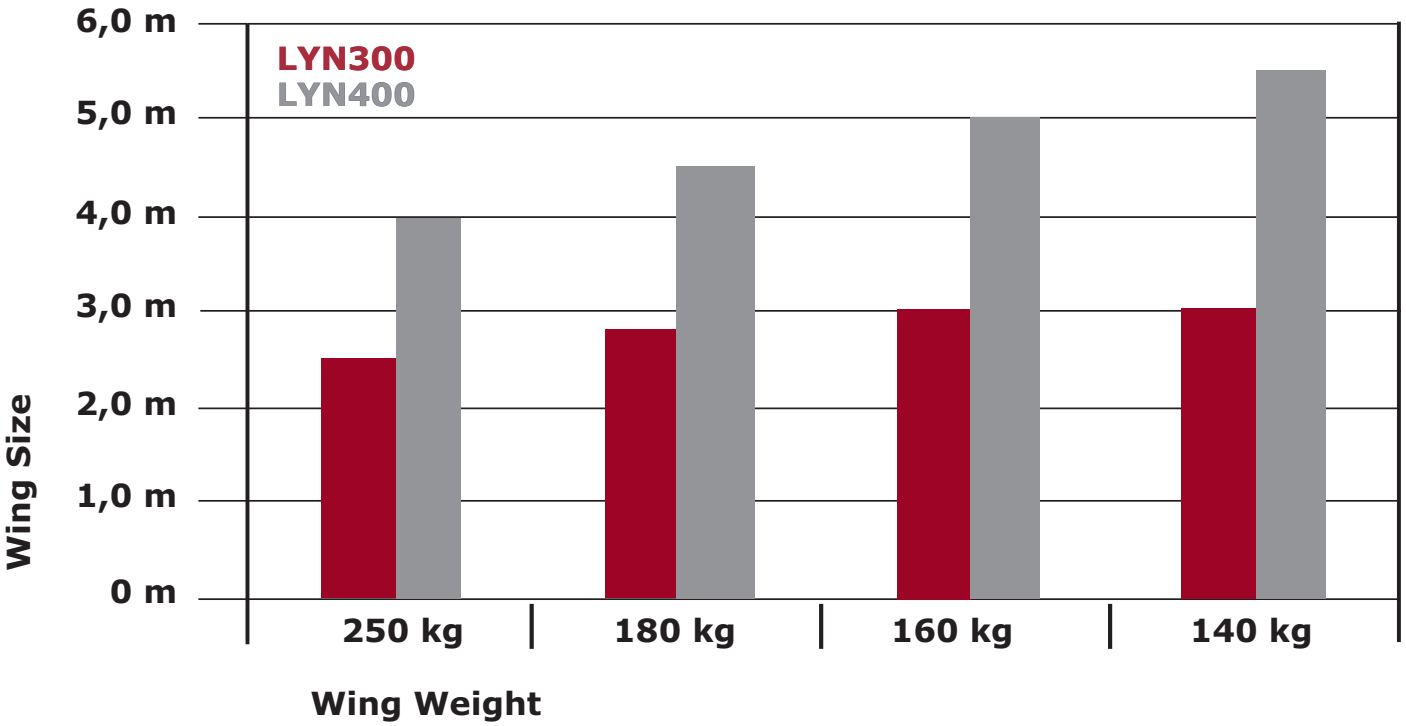
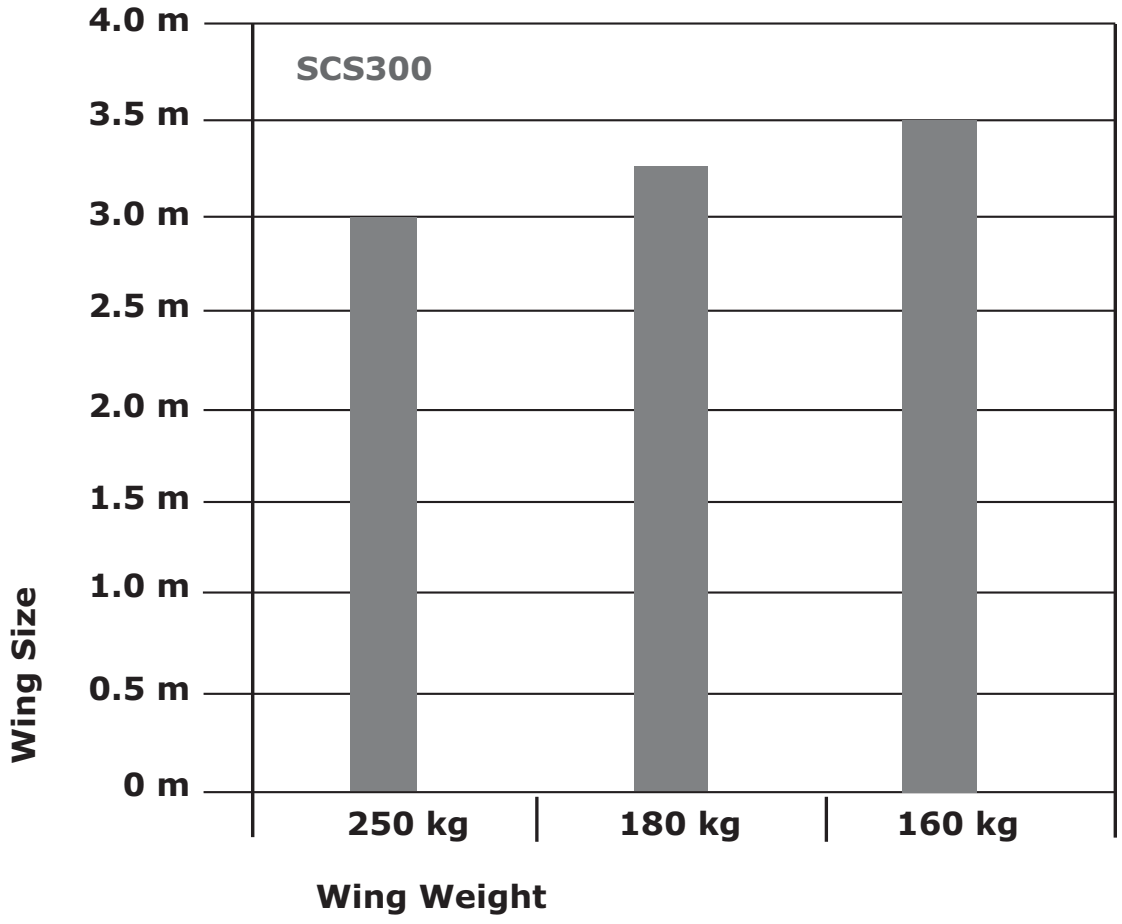

6,0 m
5,0 m
4,0 m
3,0 m
2,0 m
1,0 m
0 m
LYN300
LYN400
Wing Size
250 kg
180 kg
160 kg
140 kg
Wing Weight


4.0 m
3.5 m
3.0 m
2.5 m
2.0 m
1.5 m
1.0 m
0.5 m
0 m
SCS300
Wing Size
250 kg
180 kg
160 kg
Wing Weight

PLEASE START BY READING THESE IMPORTANT SAFETY RULES • SAVE THESE INSTRUCTIONS

This safety alert symbol means "Caution" - failure to comply with such an instruction involves risk of personal injury or damage to property. Please read these warnings carefully.

This gate drive mechanism is designed and tested to offer appropriately safe service provided it is installed and operated in strict accordance with the following safety rules.

Incorrect installation and/or failure to comply with the following instructions may result in serious personal injury or property damage.

When using tools and small parts to install or carry out repair work on a gate exercise caution and do not wear rings, watches or loose clothing.

Installation and wiring must be in compliance with your local building and electrical installation codes. Power cables must only be connected to a properly earthed supply.

Any entrapment possibility by the moving wing between wing & walls must be secured with safety edges or IR-sensors.

Please remove any locks fitted to the gate in order to prevent damage to the gate.

After the installation a final test of the full function of the system and the full function of the safety devices must be done.

This drive cannot be used with a gate incorporating a wicket door unless the drive cannot be operated with the wicket door open.

It is important to make sure that the gate always runs smoothly. Gates which stick or jam must be repaired immediately. *Employ a qualified technician to repair the gate, never attempt to repair it yourself.*

Keep additional accessories away from children. Do not allow children to play with pushbuttons or remote controls. A gate can cause serious injuries as it closes.

Disconnect electric power to the system before making repairs or removing covers.

A disconnecting device must be provided in the permanently-wired installation to guarantee all-pole disconnection by means of a switch (at least 3mm contact gap) or by a separate fuse.

Make sure that people who install, maintain or operate the gate drive follow these instructions. *Keep these instructions in a safe place so that you can refer to them quickly when you need to.*

The full protection against potential squeeze or entrappment must work direct when the drive arms are installed.

1-GB

CONTENT OF THE CARTON 1

(1) Motor LYN & SCS (1/2)
(2) Postbracket LYN & SCS
(3) Keys per motor (2)
(4) Gate fixing bracket LYN & SCS (1)
(5) Capacitor 230V (1)
(6) Manual (1)
(7) LYN Clevis pin (2) and rings (4)
(8) SCS Clevis pin (2) and rings (2)
(9) SCS Nut (1) and Washer (1)

BEFORE YOU BEGIN

The drive mechanism needs room to the side permitting correct installation of drive arms. Please make sure that this is available. Gates affected by high wind loads must also be protected by an (electric) lock.

There are many factors to consider when choosing the right drive mechanism. Assuming that a gate functions properly, "startup" is the most difficult phase, once the gate is in motion, significantly less force is usually required to move it.

- **Gate size:** Gate size is a very important factor. Wind can brake or distort the gate, thereby increasing the amount of force needed to move it considerably.
- **Gate weight:** The weight of the gate in not as relevant as the size.
- **Effect of temperature:** Low outdoor temperatures can make initial startup more difficult (changes in the ground, etc.) or even prevent it. High outdoor temperatures along with frequent use can trigger thermal protection prematurely (approx. 135 ºC). (Only in the case of 230 volt drives).
- **Betriebsfrequenz/Einschaltdauer:** 230 volt drive mechanisms are designed for a maximum operating time (running time) of approximately 30% (e.g. 30% during any one hour). 24 volt drives can run permanently.

  IMPORTANT: 230 volt drive mechanism is not designed to operate continuously at its maximum operating time (non-stop operation). Otherwise the drive mechanism becomes too hot and switches off until it cools down to the switch-on temperature. *The outdoor temperature and the gate are important parameters that affect the actual operating time.*

INSTALLATION CHECKLIST - PREPARATIONS

Check the carton contents and read the instructions carefully. Make sure your gate equipment operates perfectly. The gate must run evenly and smoothly and must not stick at any point. Remember that the ground level may be several centimeters higher in winter. The gate must be stable and as free of backlash as possible in order to prevent any unwanted to and fro movement. The more smoothly the gate leaf runs, the more sensitive the force adjustment must be.

Note down any materials you still need and obtain them before starting to install. Heavy-duty plugs, bolts, gate stops, cables, distribution boxes, tools, etc.

GATE TYPES 2

The gate type determines the location where the drive mechanism is installed. If the gate stop is on the ground, the drive mechanism must also be installed at a height that is as low as possible so that it cannot twist the gate. Use only parts of the gate frame for fixing purposes.

TYPE A, B, C

For steel gates, the gate fitting must be attached to the main frame. If you are uncertain whether the available support is sufficiently stable, reinforce it.

TYPE D, E, F

In the case of wooden gates, the gate fitting must be through bolted. It is advisable to fit a plate from the outside so that the fixing brackets cannot become loose over time. Thin wooden gates must also be reinforced in order to withstand the stresses encountered (e.g. type F).

GATE CONFIGURATION 3

How far must the gate leaf open?

90 degrees or up to 115 degrees. An opening angle in excess of 115 degrees is possible to a limited extent but is not recommended. Reason: the drive mechanism always runs at the same speed. The further the gate has to be opened, the faster the gate leaf must travel. Movement becomes more erratic and this subjects the fittings and gate to extreme stresses.

For gates without limit switches: Non-identical opening angles cause one drive mechanism to reach its destination first, but continues to run, thereby forcing the gate up against the gate stop until the other motor eventually reaches its end position (see **figure 3A-F**).

Tip for professionals: The time taken to reach the limit stop can be controlled by deliberately selecting different A and B dimensions (left + right). However, this method of installing subjects the fittings to high stresses and can cause the gate to run erratically. It is recommended that only experienced gate installers adopt this method.

IMPORTANT *If the gate opens towards a wall, there is a risk of entrapment. Should the distance between the wall and the open gate be less than 200 mm, this area must later be secured via a light barrier or contact strip.*

GATE STOPS 4

A SWING GATE NEEDS A FIXED GATE STOP IN BOTH THE OPEN AND CLOSE DIRECTIONS. Gate stops save wear and tear on the drive mechanism, gate and fittings. Operating a gate without fixed limit stops results in poor performance. It is often dangerous, leads to premature wear and voids your warranty!

POST FIXING BRACKET 5

Choosing the correct location for the post fixing bracket has a decisive impact on the subsequent functioning of the system. It determines the distance between the motor's centre of motion and the gate's centre of motion and hence the opening angle. These dimensions are referred to as **dimension A** and **dimension B**. Do not underestimate the effect that these dimensions have on correct functioning and running. Try and achieve the best dimension for your opening angle, as precisely as possible and suitable for all circumstances. See Table **(figure 3F)** for dimensions A/B.

If the post is not wide enough, an extension piece must be fitted to it **(figure 5B)**. If the post is too thick, cut out part of it to make it thinner **(figure 5D)**or offset the gate **(figure 5C)**.

To obtain ideal dimensions, it may be necessary to shorten or lengthen the supplied hinge plate. In the case of gates that are to be custom made, if the gate hinges are fitted on the posts appropriately, it is possible to influence dimensions A and B. Before the final mounting dimensions are determined, you should always check whether or not there is any possibility that the corner of the drive mechanism will hit the post as the gate swings.

INSTALLATION: The drive mechanism exerts considerable force against the post. Usually, acceptable mounting dimensions are obtained if the supplied hinge plate is welded directly onto the post. In the case of thick stone or concrete posts, the hinge must be welded to a base plate and attached so that the plugs cannot work loose during operation. Heavy-duty plugs where a threaded rod is bonded into the masonry stress-free are more suitable for this purpose than steel or plastic straddling plugs. In the case of brickwork pillars, bolt on a relatively large steel plate that covers several bricks and then weld the hinge plate to it. An angle plate attached over the corner of the post is also a good means of fixing the operators.

ACCESSORY TIP 1: *For round posts an accessory fitting can be mounted that simplifies the setting of the A/B dimension (model 207917).*

ACCESSORY TIP 2: *For gates swinging outwards a special fitting can be ordered.*

GATE FITTING 5

The gate fitting must be installed so that it is horizontal relative to the post bracket. The distance between the gate bracket and post bracket is referred to as the "arm span". When the gate is closed, the drive mechanism is 99% extended. When the gate is opened, the drive mechanism is 1% extended. Fully retracting or extending the plunger/spindle in operation (with gate) damages the drive mechanism and voids the warranty. It is absolutely imperative to comply with the required arm span under all circumstances!

For steel gates, fixings should be welded on or through bolted. When through bolting the gate, use large washers or a plate on the other side. The drive mechanism exerts an extremely high force on this joint.

Fixings must be through bolted for wooden gates. Wood deflects under load and the bolt will become loose. Due to movement caused by repeated loading, the wood deflects more and more until the gate no longer closes correctly and has to be repaired.

Fit a reinforcing plate from the outside and one on the inside so that the wood cannot deflect and the joint cannot become loose.

Thin wooden gates without a metal frame must also be reinforced in order to withstand continuous stresses (e.g. type F).

RELEASE 6

The drive mechanism can be released. The gate can then be opened and operated manually (power failure). With a new drive mechanism, the release action may sometimes feel stiff/jerky. This is normal and has no effect on function.

Release: Insert the key in the cylinder lock and turn it 180 degrees. Then turn the release lever 180 degrees – done!

Engage: Turn the lever glockwise. As soon as the gate moves or the drive runs, the gear locks again. Use the lock to protect the lever against unauthorized release.

INSTALLING THE DRIVE ARMS 7

Release the drive. Push the released drive onto the fittings and secure it by using the supplied bolts, nuts and rings.

„If the centre or inner hole, on the hinge plate, is used to fix the post fixing bracket you MUST cut away the remaining section of the hinge plate before activating the arms. Failure to do so will result in breaking the fixing bracket“.

Do not use a hammer when you mount the operator on the bracket.

WIRING 7

230 VOLT: The 4-pole connecting cable is approx. 80 cm long and is laid in a curve to the controller or a watertight distribution box located above ground. An approved cable is permanently installed from the distribution box onwards. The capacitor can be connected inside the distribution box or in the controller.

Connection: Connect the capacitor across terminals OP and CL. OP and COM produce rotation direction A. CL and COM produce reversed direction of rotation. *Always remember to earth the installation **(figure 7B).***

24 VOLT: The connecting cable has 6 wires, is approx. 80 cm long and is run in a curve to the control unit or to a watertight distribution box located above ground. A permanent connection is formed from the distributor box via an appropriate cable.

Connection: See control unit instructions.

Cable colours: Brown/Green/White/Yellow=sensors
Blue/Red: 24 volt motor.

ACCESSORY TIP: Extension cable LA400-JB40

Contains:

(1) 12m cable with terminals
(1) Distribution box IP65
(2) Strain relief PG 13,5
(1) Mounting material

INIATIAL OPERATION

Check functionality in a disengaged state with the hand on the gate. Initial electrical operation is only possible with a suitable control unit that can be purchased as an accessory. Ensure at all times that mechanical and electrical safety instructions applying to the given installation are complied with.

Should the force of the moving wing at its closing edge be higher than 400N , then additional safety facilities (light barrier, contact strip) must be used. Any safety facilities must comply with the requirements set out in EN60335-2-103.

MAINTENANCE WORK

The drive mechanism is maintenance free. Check that the gate fittings and the drive mechanism are securely fixed at regular intervals (monthly). Release the drive and check that the gate functions properly. Unless the gate runs smoothly it will not operate correctly with the drive mechanism. The drive cannot eliminate the problems caused by a gate that does not work satisfactorily.

24Volt drives: also see owners manual of Electronic Control.

3-GB

TECHNICAL DATA

230Volt	
Mains supply (Motor)	220 – 240Volt~/ 50Hz
Motorspannung	220-240 Volt
Current consumption	1.2A
Power consumption	280W
Capacitor	6.3µF
Max. gate width	2.5m **LYN300** 4.0m **LYN400** 3.0m **SCS300**
Max. gate weight	250kg
Protection Class	I - IP 44
Connecting cable	H07RN-F / 80cm
Rated Thrust	250N
Travel Speed	20mm/s **LYN300, SCS300** 12mm/s **LYN400**
Rated operating time	4 Minuten
Temperature	-20°C up to + 55°C
24Volt	
Mains supply (Motor)	220 – 240Volt~/ 50Hz
Motorspannung	24Volt
Current consumption	2A
Power consumption	48W
Max. gate width	2.5m **LYN300** 4.0m **LYN400** 3.0m **SCS300**
Max. gate weight	250kg
Protection Class	I - IP 44
Force (nominal)	250N
Travel Speed	variabel
Opening time 90° sec.	approx. 12 **LYN300** approx. 14 **LYN400** approx. 10 **SCS300**
Temperature	-20°C up to + 55°C

Declaration of Conformity

Automatic Gate Opener Models LYN300 Series, LYN400 Series, SCS300 Series are in conformity to the applicable sections of StandardsEN300220-3 • EN55014 • EN61000-3 • EN60555, EN60335-1 • ETS 300 683 • EN60335-1: 2002 • EN60335-2-103: 2003 • EN55014-1: 2000 + A1 + A2 • EN55014-2: 2001 • EN61000-3-2: 2000 • EN61000-3-3: 1995 + A1 • EN 301 489-3, V1.3.1 • EN 300 220-3 V1.1.1 • EN 13241-1

per the provisions & all amendments of the EU Directives 73/23/EEC, 89/336EEC, 1999/5/EG

Declaration of Incorporation

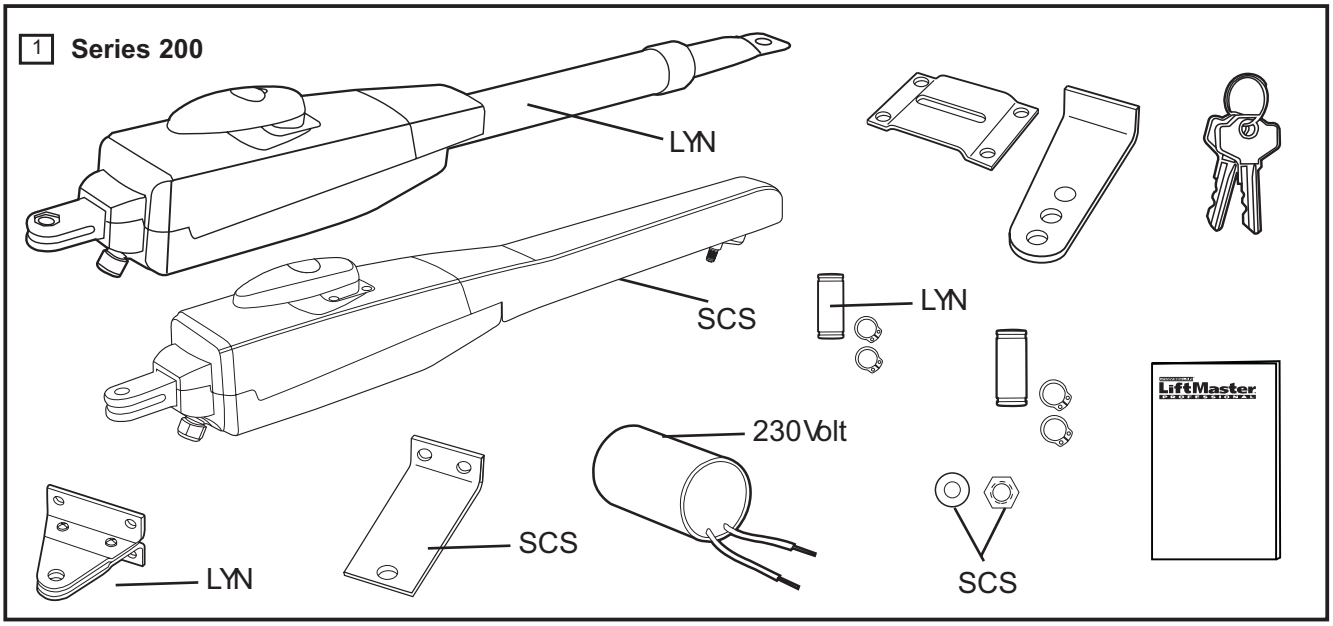
Automatic Gate Opener Models , when installed and maintained according to all the Manufacturer's instructions in combination with a Gate, which has also been installed and maintained according to all the Manufacturer's instructions, meets the provisions of EU Directive 89/392/EEC and all amendments.

I, the undersigned, hereby declare that the equipment specified above and any accessory listed in the manual conforms to the above Directives and Standards.

B.P.Kelkhoff
Manager, Regulatory Affairs
Chamberlain GmbH
D-66793 Saarwellingen
May, 2005

CE

Barbara P. Kelkhoff


1 Series 200
LYN
SCS
LYN
230Volt
SCS
LYN
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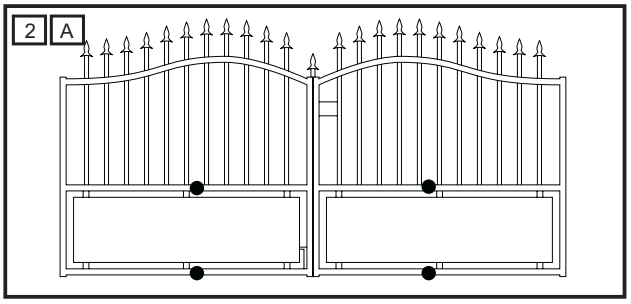
LiftMaster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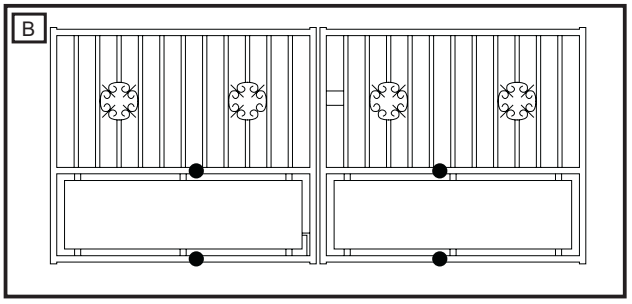
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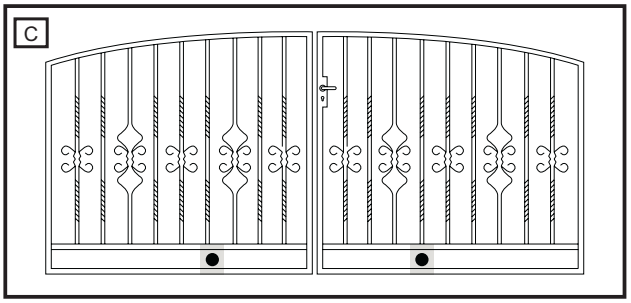
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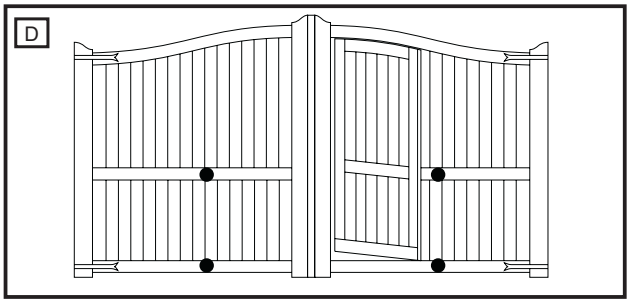
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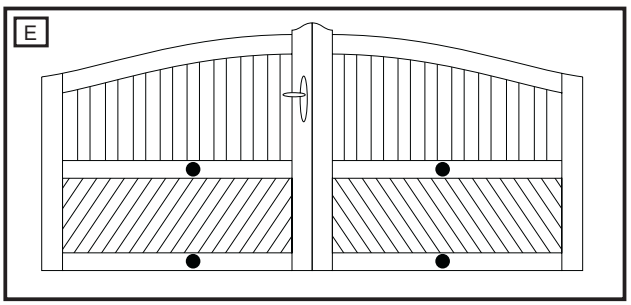
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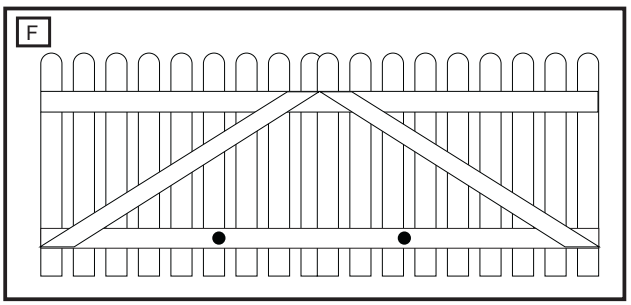
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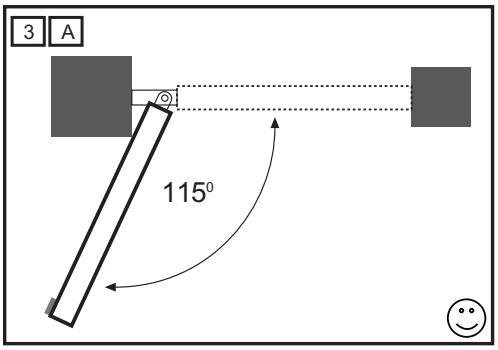
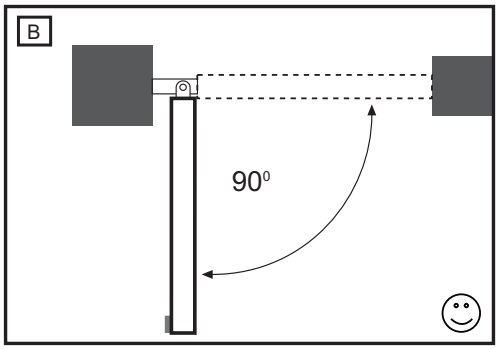
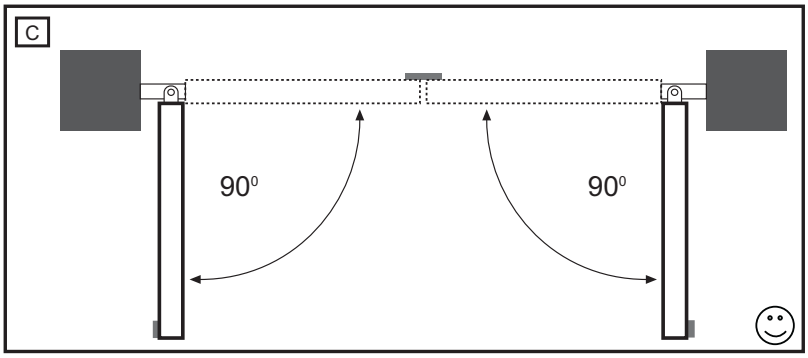

3
A
115⁰


B
90⁰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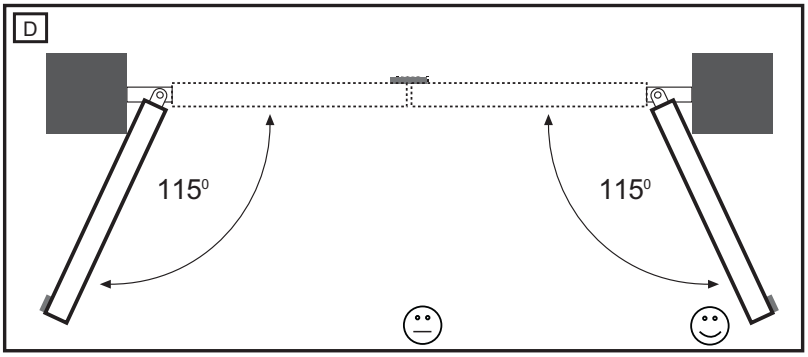
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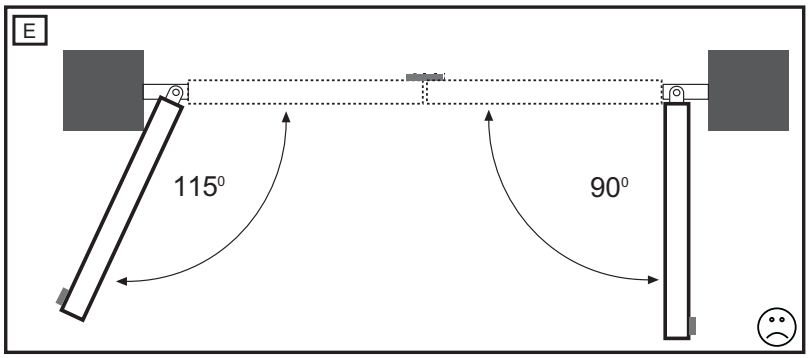
115⁰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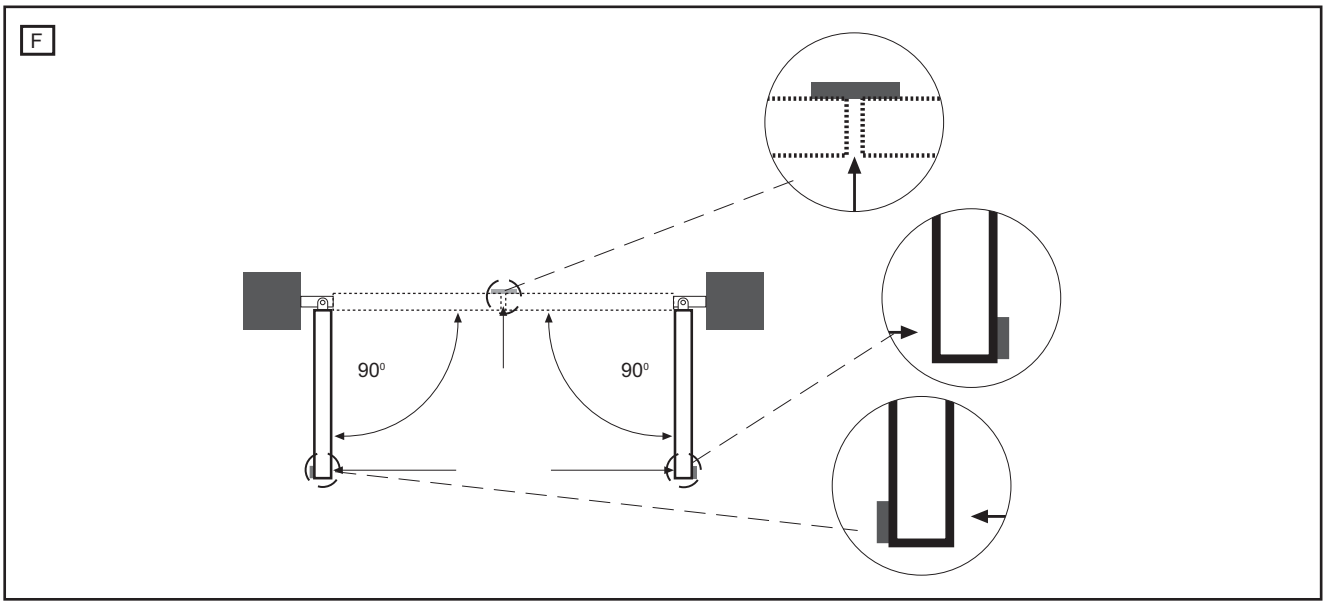
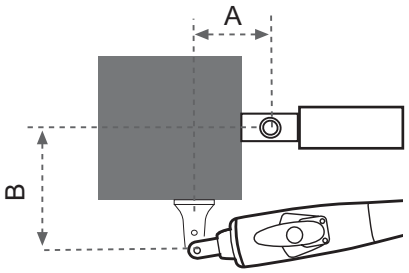
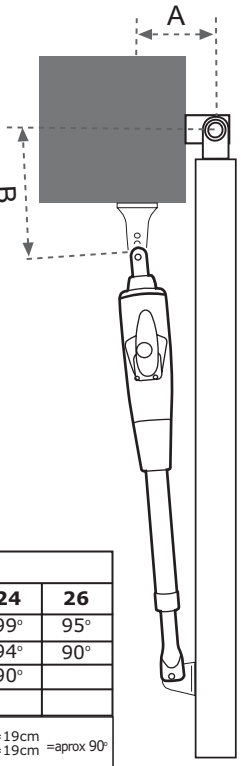
115⁰
90⁰


F
90⁰
90⁰

4 A





SCS300

A								
B		10	12	14	16	18	20	22
	10		115°		110°	105°	100°	
	12		110°	121°	101°	100°	94°	
	14		108°	105°	93°	100°	92°	
	16		106°	95°	87°			
	18			93°			A=15cm B=15cm =aprox 90°	
	20							
	22							

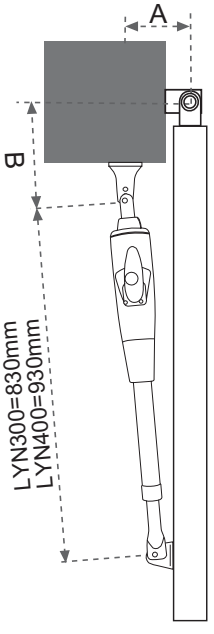
LYN300

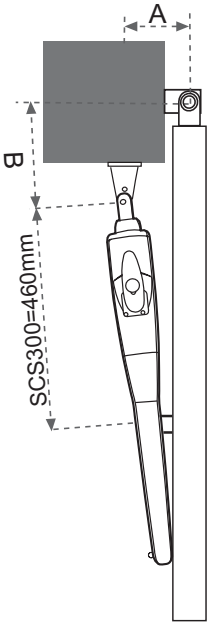
A								
B		10	12	14	16	18	20	22
	10		115°					
	12		110°	121°	110°	105°	100°	
	14		108°	105°	101°	100°	94°	
	16		106°	95°	93°	100°	92°	
	18			93°	87°	87°	A=15cm B=15cm =aprox 90°	
	20							
	22							

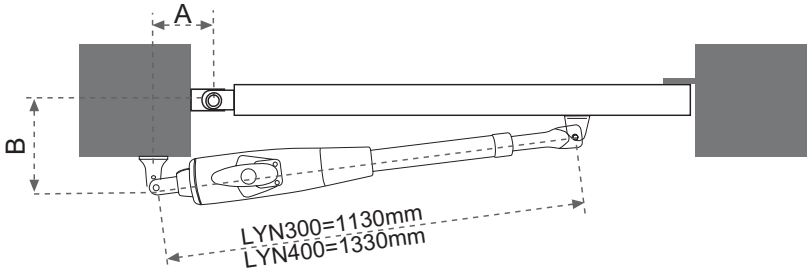
LYN400

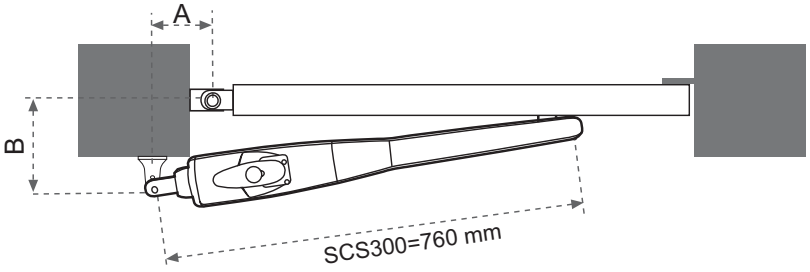
A								
B		14	16	18	20	22	24	26
	14	105°	120°	125°	111°	105°	99°	95°
	16	103°	118°	113°	102°	98°	94°	90°
	18	111°	115°	105°	97°	93°	90°	
	20	109°	103°	96°	90°	100°		
	22	106°	95°	90°		87°/118°	A=19cm B=19cm =aprox 90°	
	24	93°						
	26							

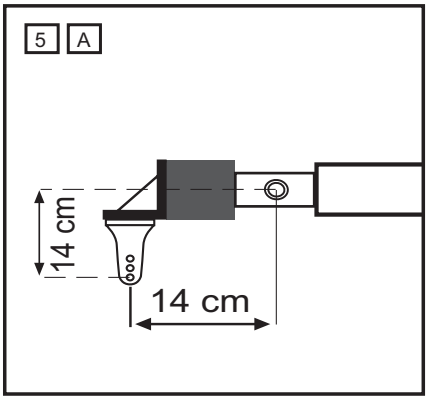
B

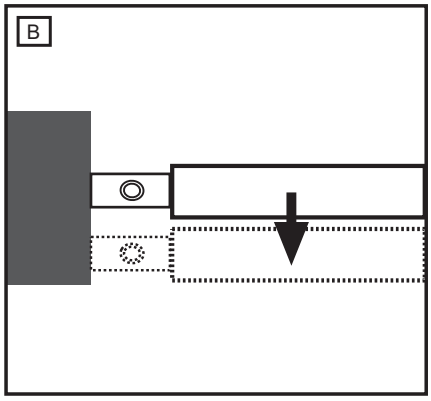


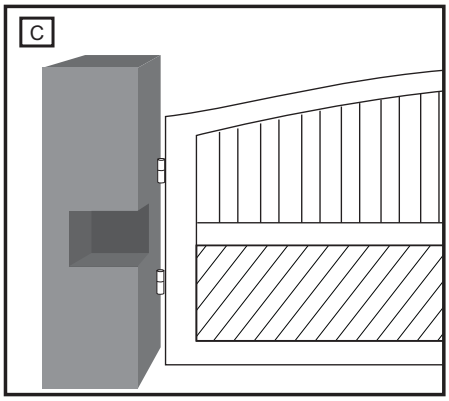







5
A
14 cm
14 cm


B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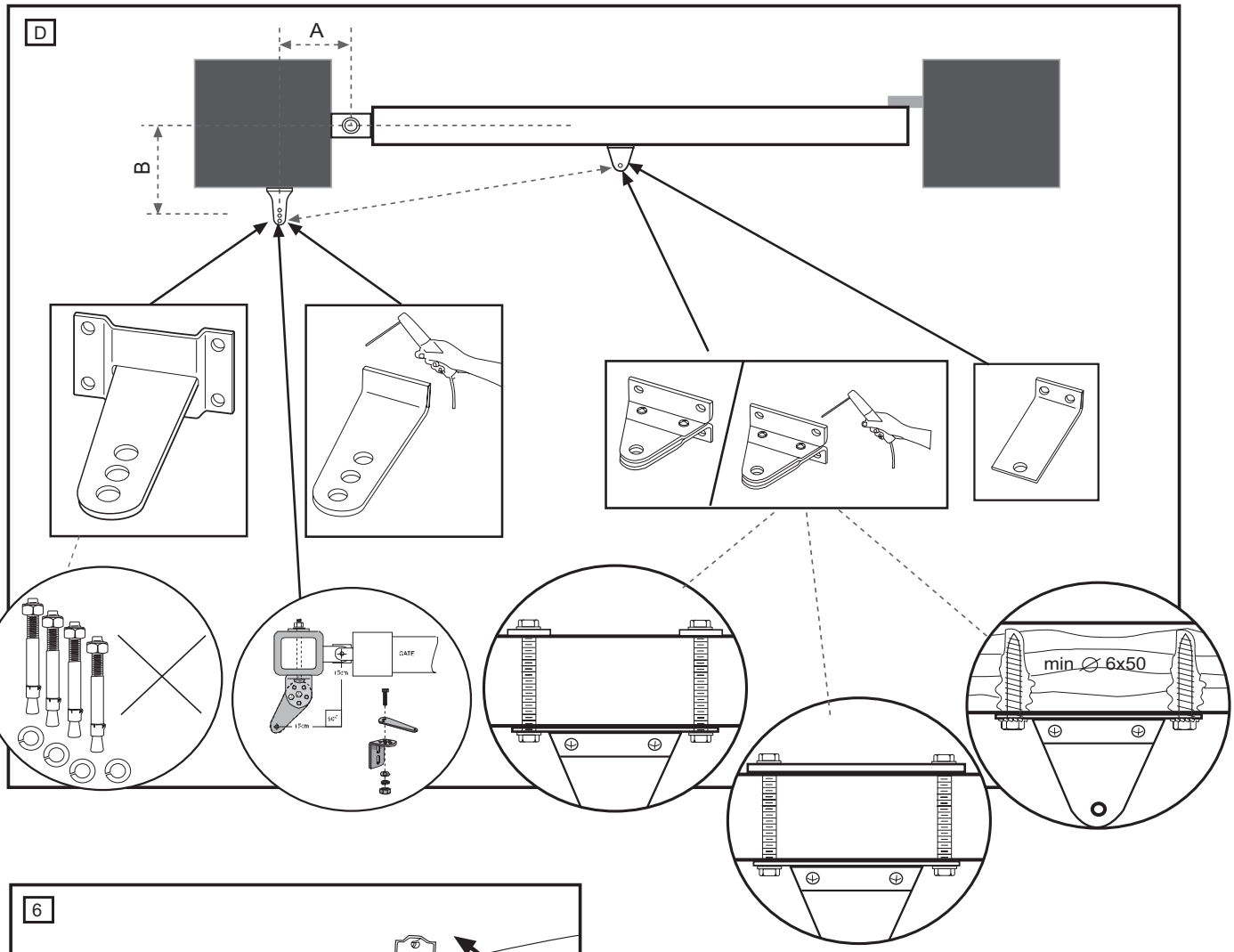
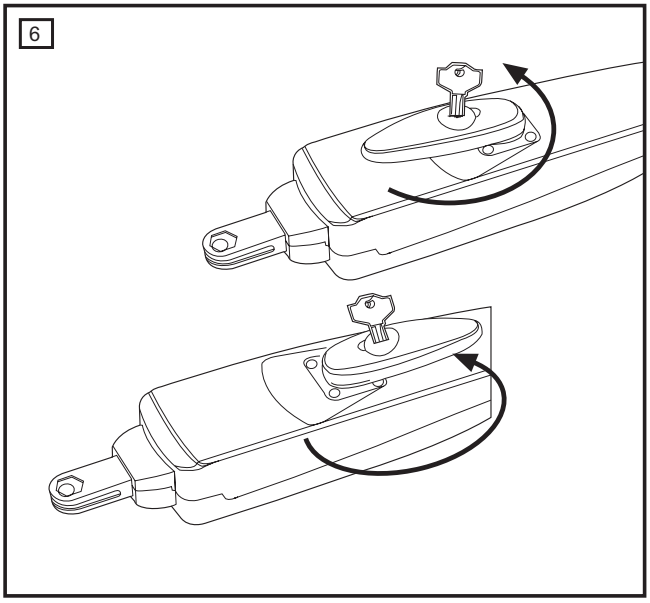

D
A
B
min ∅ 6x50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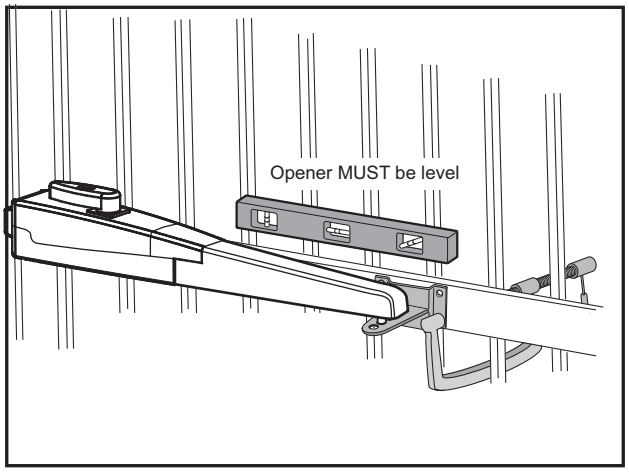
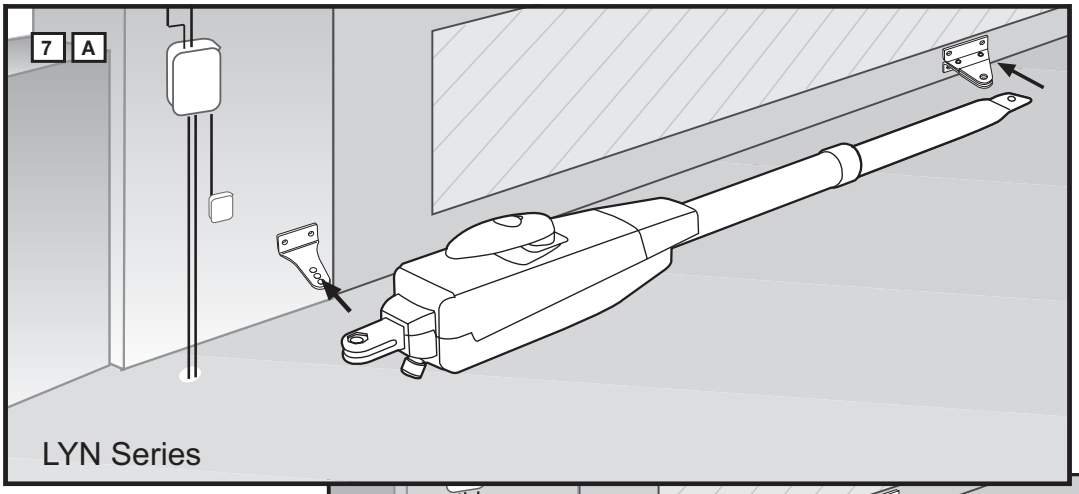
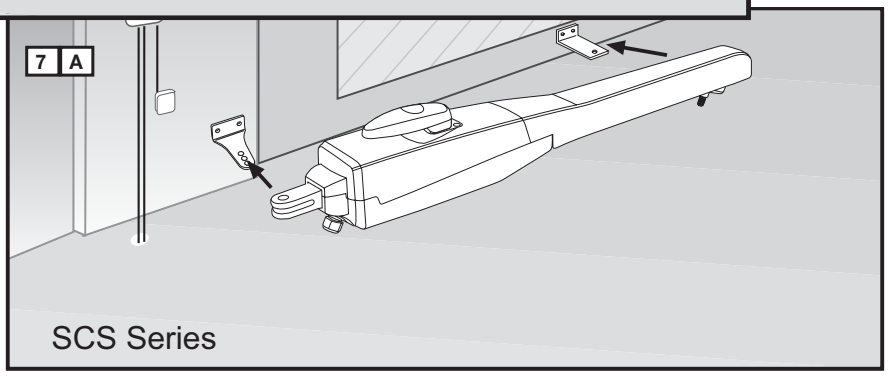
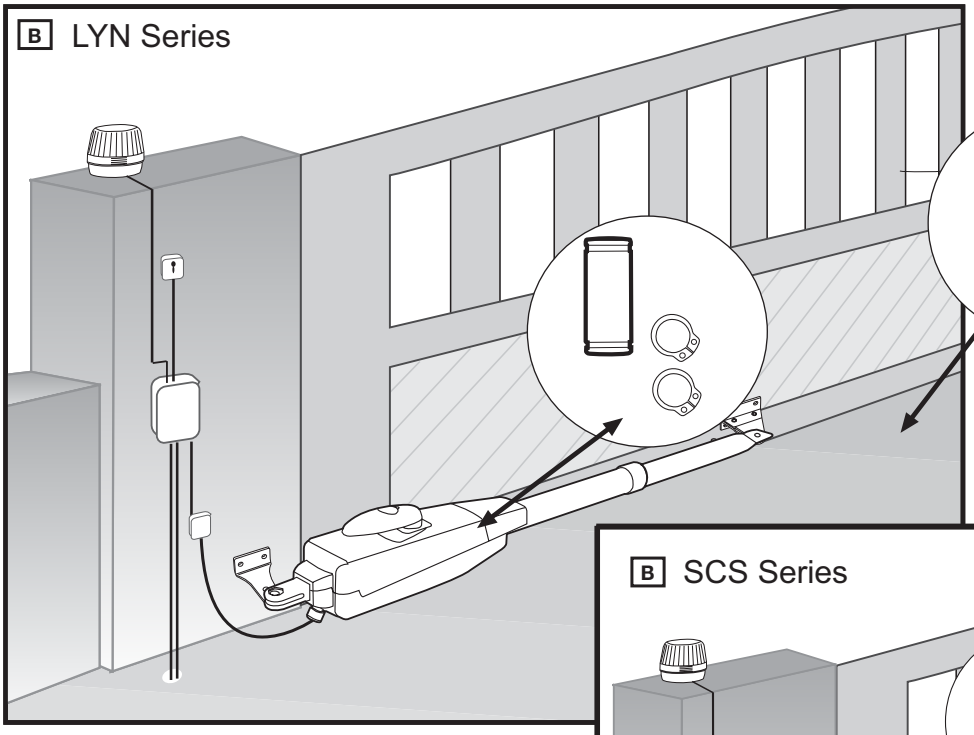
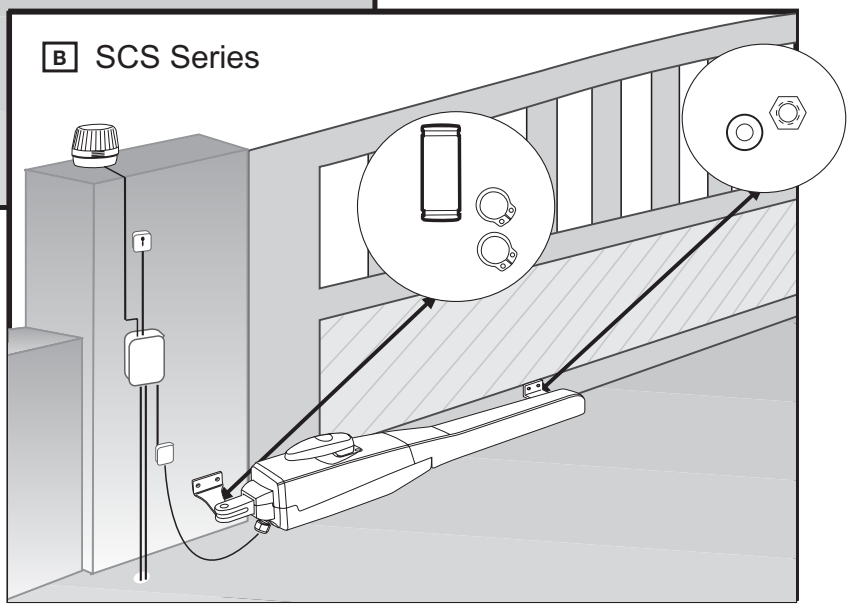
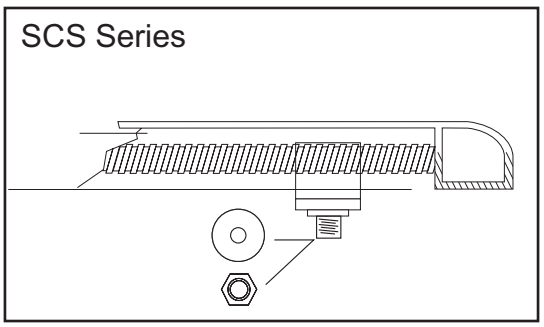

Opener MUST be level


7 A
LYN Series

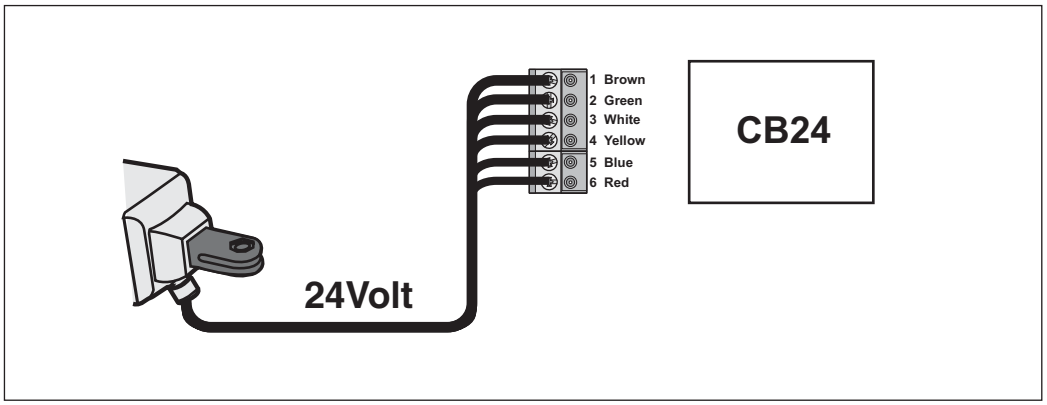

7 A
SCS Series

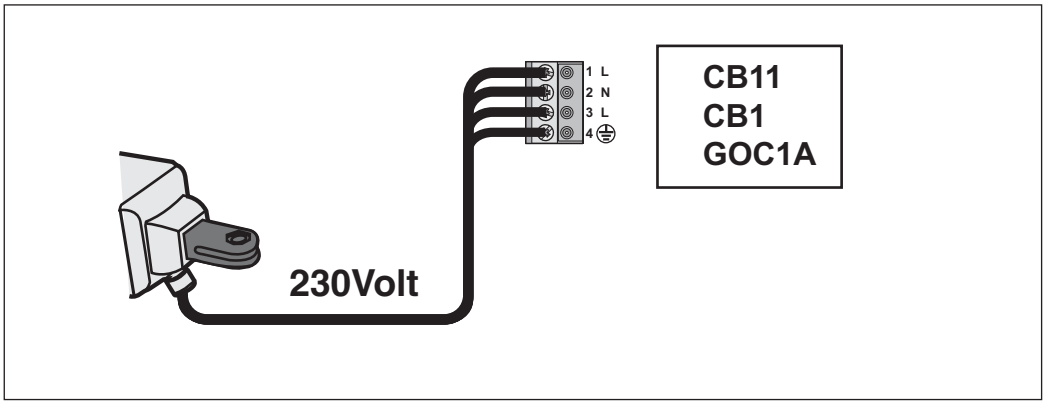

B LYN Series


B SCS Series

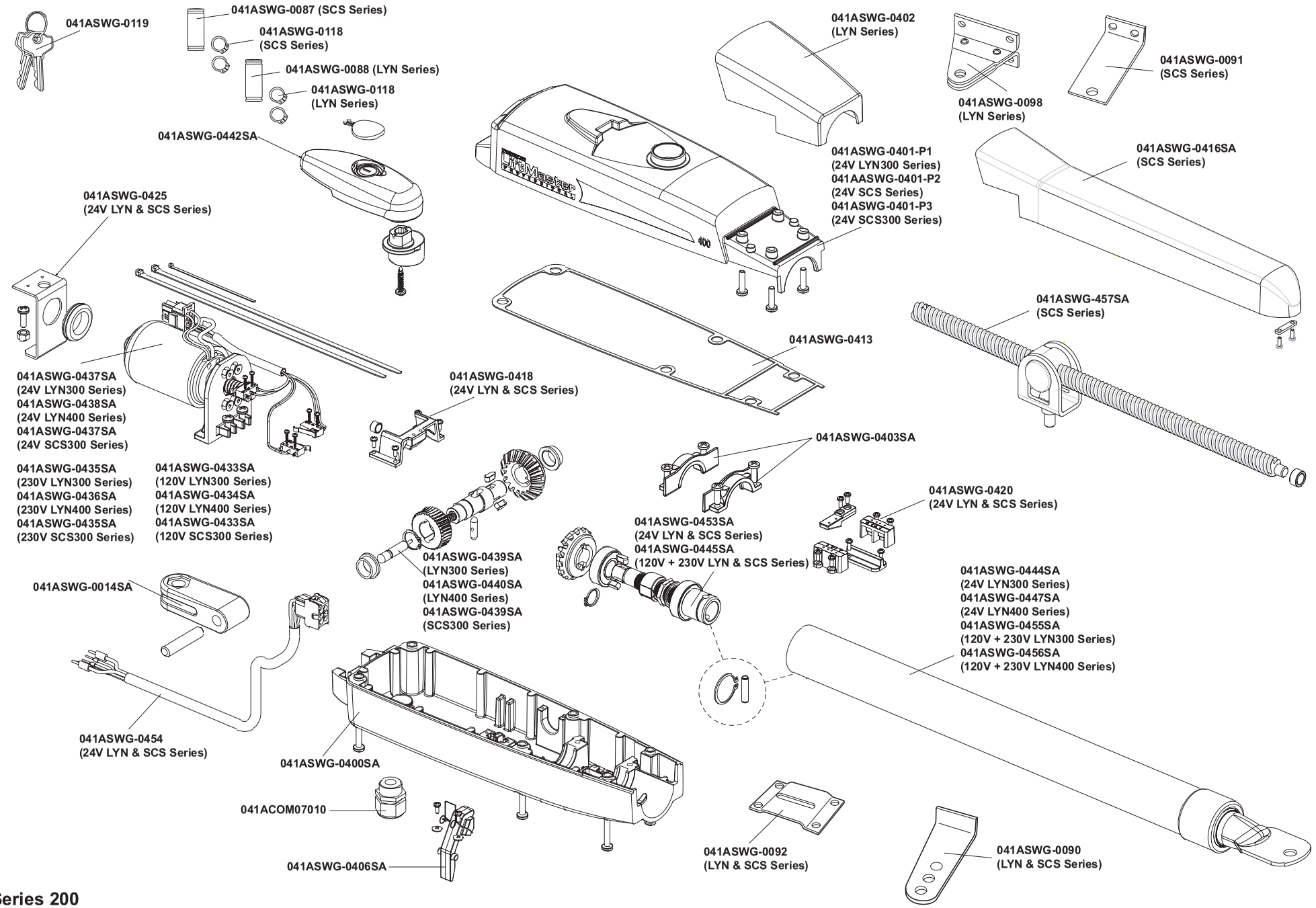

SCS Series

8


1 Brown
2 Green
3 White
4 Yellow
5 Blue
6 Red
24Volt
CB24


1 L
2 N
3 L
4
230Volt
CB11
CB1
GOC1A

9



Series 200