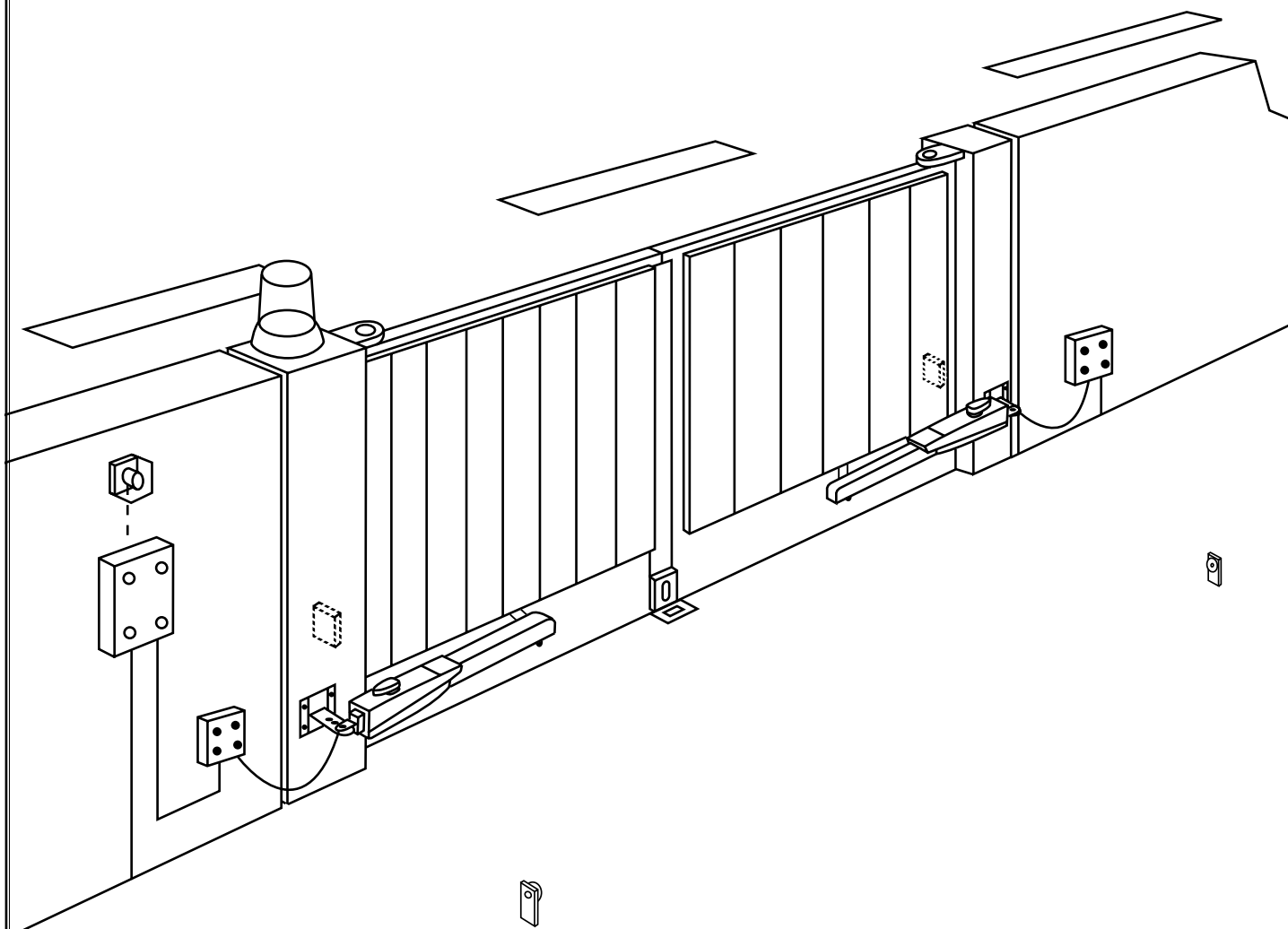


CHAMBERLAIN™

LiftMaster™

PROFESSIONAL



SCS300K SCS300KS

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

1-GB



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.



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.*



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.



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.



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



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



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

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.



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



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.*



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



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

Contents: General advice on installation and use:

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Before you begin: page 2

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Gate types/installation height:

page 2, figure **2** A-F

Gate configuration:

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Gate stops:

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Post bracket/Gate fixing bracket:

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Release of drive arms:

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Installing the drive arms::

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Wiring: page 3, figure **7**

Initial operation: page 3

Maintenance work: page 3

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Elektrical Installation:

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CE Declaration of Conformity: page 6

CONTENT OF THE CARTON **1**

(1) Motor (1)

(2) Electronic Control (1)

(3) Postbracket (1)

(4) Keys (2)

(5) Gate fixing bracket (1)

(6) Capacitor (1)

(7) Manual (1)

(8) Clevis pin (2) and Rings (4)

(9) Nut (1 or 2)

(10) Washer (1 or 2)

(11) 3-Channel Remote Control Mini (1)

(12) IR Sensor (1 pair)

(13) Flashing lamp (1)

(14) Antenna (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 is 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 °C).
- **Operating frequency/operating time:** Drive mechanisms are designed for a maximum operating time (running time) of approximately 30% (e.g. 30% during any one hour).

IMPORTANT: The 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. 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 Figures 3, A-E).

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.

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 fitting 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 dowels cannot work loose during operation. Heavy-duty dowels where a threaded rod is bonded into the masonry stress-free are more suitable for this purpose than steel or plastic straddling dowels. 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 operator.

GATE FIXING BRACKET [5]

The drive mechanism must be installed so that it is horizontal. The distance between the gate bracket and post bracket is referred to as the "arm span". When the gate is closed, the trolley on the spindle is in the front area and moves backwards as the gate opens..

CAUTION: The trolley must NOT hit the housing of the gate drive (end of spindle) during operation. It is imperative to comply with the required arm span under all circumstances! See Figure 5A for dimensions.

For steel gates, fixings should the gate be welded on or through bolted. When through bolting, use large washers or a plate on the other side.

Fixings must be through bolted for wooden gates. Fitting a plate from the outside is highly recommended so that the fixing cannot become loose. Thin wooden gates without a metal frame must also be reinforced in order to withstand continuous stresses (e.g. type F).

Tip for professionals: The drive mechanism can also be used for light "rising" gates or light gates with hinge bands offset up to 8° (gate weighing 100 kg). This subjects all fittings to extreme stresses and can cause the gate to run erratical. Special attention must be paid to safety, especially in the case of rising gates. It is recommended that only experienced gate installers adopt this method.

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]

Check the arm span again (Figure 5A). Push the drive onto the post bracket and secure it by using the supplied pin and rings. Then open the gate wide enough for the trolley bolt to fit in the gate fixing and use the pin and rings to secure. Only tighten the nut enough to prevent the bolt from rotating in the bracket.

WIRING [7]

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 L1 and L1. L1 and N produce rotation direction A. The other L1 terminal and terminal N produce reversed direction of rotation. *Always remember to earth the installation (Figure 7B).*

INITIAL OPERATION

With the gate released, manually check that the gate functions properly. Electrical commissioning cannot be performed without a suitable controller which you can obtain as an accessory item.

Always make sure that the mechanical and electrical safety regulations that apply to the installation are met.

If the force on the leading edge of the gates is greater than 400N then external entrapment protection devices must be installed. Install entrapment protection device per manufacturer's instructions. Devisions must meet requirements of 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.

TECHNICAL DATA

Mains supply (Motor)	220 – 240Volt-/ 50Hz
Current consumption	1,2A
Power consumption	280W
Capacitor	6,3µF
Max. gate width	3,0
Max. gate weight	200kg
Protection Class	I - IP 44
Connecting cable	H07RN-F / 80cm
Travel Speed	20mm/s
Rated operating time	4 Minuten
Temperature	-20°C to + 55°C

Mains supply (Control)	230V/50-60Hz
Absorbed power	4 Watt
Max. load	1100W
Protection fuses	1 (5A)
Protection Class (Box)	IP54

ELEKTRICAL INSTALLATION 2

The electronic control unit supplied is required for operation of the **wing gate actuator**. This control unit comprises an electronic microprocessor-control system employing the latest technology. It may be used for the connection of 1 or 2 motors and offers all connection possibilities and functions necessary for **safe and reliable operation**.

The electrical connections for single- or double gates are given in **Illustration 9**.

The control box containing the motor control module is to be fitted with cable entry at bottom (**Illustration 10**). It should not be continuously exposed to direct sunlight. For weather protection, we recommend the fitting of a small protection roof.

Thanks to the electronic control unit, fine adjustment of the push-pull torque is possible. When correctly adjusted, gate movement can be easily blocked by hand.

For the OPEN and CLOSED positions, the gate requires a stable end stop as the swing gate actuator unit is not fitted with limit switches and the electronic controls are switched off by time.

CONNECTION OVERVIEW

The control unit should be connected up last, i.e. after the motor has been mounted, the necessary cables laid and the Infrared Sensors or contact strips fixed in place.

In the case of permanent mounting, means of separating the system from the mains must be provided. The contact spacing of the main switch used in this connection must be at least 3 mm.

NOTE:

In these instructions, relay contacts are designated as *NC (normally closed)* and *NO (normally open)*.

- **NC** contacts are closed, and open when actuated.
- **NO** contacts are open, and close when actuated.

TERMINAL	DESCRIPTION
PE	Earth supply cord
PE	Earth motor 1
PE	Earth motor 2
C1	Capacitor motor1
1	Direction CLOSED (L1.1) motor 1
2	MP
3	Direction OPEN (L1.2) motor 1
C1	Capacitor motor 1
C2	Capacitor motor 2
4	Direction CLOSED (L1.1) motor 2
5	MP
6	Direction OPEN (L1.2) motor 2
C2	Capacitor motor 2
7	Flashing light MP 230Volt ~
8	Flashing light L1 230Volt ~
9	E-lock drive NO
10	E-lock drive NO
11A	Safety input OV (socket module 1)
12A	Safety input +24V (socket module 1)
13A	Switching input 1 (socket module 1)
14A	Limit switch contact 1 (factory bridged)
15A	Limit switch contact 1 (factory bridged)
16A	Push button motor 1 only, NO
17A	Push button motor 1 only, NO
11B	Safety input 0V (socket module 2)
12B	Safety input +24V (socket module 2)
13B	Switching input 2 (socket module 2)
14B	Limit switch contact 2 (factory bridged)
15B	Limit switch contact 2 (factory bridged)
16B	Push button motor 1 + 2 NO
17B	Push button motor 1 + 2 NO

FUNCTION AND DESCRIPTION OF DIP SWITCHES

Dip switch 1	ON - IR Sensor OFF - Contactstrip only for socket module 2 in connection with module 801696
Dip switch 2	ON - Reversal to direction "OPEN" after recognizing the obstacle OFF - Stop - after recognizing the obstacle
Dip switch 3	ON = Dead man's operation on OFF = Dead man's operation off

FUNCTION AND DESCRIPTION OF POTENTIOMETERS

Potentiometer 1	Operating times up to 45 seconds (safety function only, i.e. set to longer than actually required)
Potentiometer 2	Delay operation of second door up to 120 seconds
Potentiometer 3	Automatic admission up to 120 seconds

DESCRIPTION OF LEDS

LED1	Impulse to M1+M2	on: Impulse off: no Impulse
LED2	Impulse to M1 (Pedestrian-Function)	on: Impulse off: no Impulse

FORCE ADJUSTMENT AND AUTOMATIC SWITCH OFF

The drive force of the motors is adjusted with potentiometers M1 and M2. The control unit has an automatic force shut-off. If the gate encounters an obstacle during operation, it stops. The force required to stop a door and to actuate shut-off increases as potentiometers M1 and M2 are set to higher values.

The force shut off feature is not generally used in outdoor installations. Gates which are large, heavy or move sluggishly should not have a drive with force shut off, as this feature could be actuated e.g. by strong winds. Unplug the cable leading from the force module in order to interrupt the force shut off.

After a force shut off, door 2 should always be closed first in order to ensure correct closure of a 2 leaf gate.

The force shut off may not be used as the only safety measure. Other safety measures, based on use of Infrared Sensor, Contact Strips etc. must also be used.

SAFETY 3 - 6

IR SENSOR

The IR Sensor is provided to protect the gate and it must be used. The mounting position depends on the construction of the gate. Normally the IR Sensor should be mounted approximately at knee height, i.e. about 35 cm from the floor. The IR Sensors consist of a transmitter and receiver section and must be located opposite one another. The (plastic) IR Sensor housings can be opened with a screwdriver. The IR Sensor is attached to the wall with small screws and wall plugs. The very minimum requirement is one single IR Sensor, but we recommend the use of a second IR Sensor (and if necessary even more means of protection).

The transmitting section requires a 2-pole cable and the receiver section a 4-pole cable. Cable cross-section: 0.5mm² or greater. Voltage: 12/24Volt AC/DC.

SAFETY MODULE

The type of safety model used depends on the kind of protection required. The safety module is used to evaluate and function test the safety devices employed in accordance with ZH1 494 and CEN.

801689 module for LiftMaster Infrared Sensor 770E (not included).

801696 module must be used with Infrared Sensor 100263 or a Contact Strip. An 8.2 Kohm test resistor is required in this connection (this is supplied along with the module).

OPERATION WITHOUT SAFETY MODULE

Unplug the two safety modules and replace the control unit. The control unit's internal test routine indicates that the modules are not being used, and the control unit is not blocked.

Operation without safety devices is dangerous, and is not permitted.

DEAD MAN'S OPERATION

In the dead man's-mode of operation, a gate can be used without safety devices if the operator has a full overview of the system's operation.

Three dip switches are situated in the top part of the control unit. Set dip switch 3 to ON. The control unit then only functions while continuous control signals are given by means of a transmitter, key or pushbutton. If the control signals are interrupted, the gate stops and will move in the opposite direction when the next signal is received.

OPERATION WITH INFRARED SENSOR 13 - 16

The IR Sensor will be connected with the 8.2 K Ω resistor (which is included). The connection of 2 IR Sensors is possible through serial connection (terminals 3 and 4 of the IR Sensors and the 8.2 K Ω resistor are connected in series) (Safety inputs 11-12-13 A/B).

OPERATION WITH INFRARED SENSOR TYPE 770E AND SAFETY MODULE 801689 (NOT INCLUDED)

When connecting this IR Sensor a permanent examination of the IR Sensor and the according cables is granted. The IR Sensor is failsafe and is in accordance to the regulations to connect only cables with the same markings (*white/white 11A/11B and black/black 13A/13B*).

OPERATION WITH CONTACT STRIPS AND MODULE 801696 (CONTACT STRIPS NOT INCLUDED)

The contact strips work in the same way as photoelectric barrier type LifMaster 100263. With self-monitoring strips which have their own control unit, e.g. light strips, the 8.2 Kohm test resistor should be clamped in the lead. With non-self-monitoring contact strips, it is advisable to clamp the test resistor to the end of the strip to permit full testing of the strip. Several contact strips can be used in series. Connection to 11B/13B (socket module 2)

COMBINED OPERATION WITH CONTACT STRIPS AND INFRARED SENSOR (CONTACT STRIPS NOT INCLUDED)

Each one of the two safety inputs works independently. They can be configured in any desired way to meet requirements.

ANTENNA 18 - 19 C

An external aerial is not essential. A short aerial is attached to the radio adapter on the controller. If the range of the remote controller has to be increased, you should fit an external aerial suitable for 433MHz (model ANT4X-1EML incl. 75 Ohm coaxial cable). Connection is made via the radio adapter to the controller (see controller instructions). The best place for an aerial is high up and as far as possible from any electrical devices. The short cable aerial, which is supplied with and fitted to the unit, must not then be used.

FLASHING LAMP 17 - 17 C

The use of the flashing light is essential. It is supplied for safety reasons and warns people in the vicinity of the gate that it is moving. The flashing light is attached by means of screws and wall plugs. The earth cable must be installed to the light. Mounting is normally at the highest point (gate post). Cable cross-section: 0.75mm², 3-pole

Voltage: 230Volt /AC.

KEYSWITCH INSTALLATION 20 - 22 C

- Disconnect screw for the cover.
- Disconnect both housing screws (Surface mount only).
- Pin on key and turn completely to one side.
- Keep key turned and pull.

Connection of the cables according wiring diagram.

Assembly in reversed order.

ELECTRIC LOCK (NOT INCLUDED)

In order to permit the use of various electro-lock systems, contact 9-10 is designed for potential free closure. The contact is closed 1 second before the motor starts up, and stays in this condition for about 3 seconds. In other words, the lock is unlocked before the door opens and remains actuated for 3 seconds to ensure that it does not get locked again. This function is also operative during closure of the gate.

INITIAL SETTING OF REMOTE CONTROL 23

The PTT-approved, charge-free radio remote control unit functions with a *computer pre-programmed private security code (approximately 3.5 billion code possibilities)*. In this way, your swing gate control unit can only be activated by handset with the correct code. The operating range depends on local conditions.

The receiver module of the motor control unit has a built-in self-learn function. It can be set in accordance with the pre-programmed code of the handset by pressing the learn button.

The control unit comprises 2 learn channels. In this way, the handset may be used to open or close one gate only or both gates simultaneously. When, for example, channel 1 (1) receives the remote control code of the first control button of the handset, then only one gate is opened. When the second channel (2) is set in accordance with the remote control code of the second control button, then both gates are operated when this button is pressed.

In order to configure the control PCB pre-programmed code in accordance with the handset, the learn and transmit buttons for the required channel must be pressed and held until the associated LED lights up briefly. When a multi-control handset is used, this procedure must be repeated for each control button and associated learn channel.

Repeat this procedure for every transmitter.

DELETION OF PROGRAMMED REMOTE-CONTROL CODES

Press the corresponding learn button (1 or 2) approx. 10 sec. on the receiver PCB until the learn LED goes off. The code memorised with this learn button has now been deleted.

REPROGRAMMING

When reprogramming, the above-mentioned coding steps must be repeated for all remote-control handsets in operation and their control buttons. The operating range of the remote-control unit depends on local conditions. Press and hold the button on the handset (approx. 2 seconds) until the gate begins to move.

In the PTT-approved frequency range for the radio control of gates, there are also medical, industrial, scientific, military and household radio systems in operation, some of which have a very high transmission range. The close proximity of such a radio installation could lead to a reduction in operating range or temporary interference in your radio remote-control system.

INITIAL OPERATION AND TRANSFER

- Connect up the control unit including the safety inputs
- Connect up the gate and lock the motors
- Connect the control unit to the mains
- Check whether any of the LEDs of the safety module have lit up; this indicates that the control unit has been blocked because one of the safety devices has been triggered
- Have the limit switches been jumpered? (This should be done in the factory for 14A and 15A, and for 14B and 15B.)
- Using a screwdriver, adjust the force of potentiometers M1 and M2 (middle left) initially to about 30-50%, depending on the size and weight of the gate
- Adjust potentiometer P1 to 50% (time adjustment).
- Set potentiometers P2 and P3 to left-hand stop
- Are the end stops in the Open and Closed directions fixed (present).
- Now push the test button on the control unit; both doors of the gate should open
- If only one door opens, the other must have been connected up wrongly.
- Make any fine adjustments that may be necessary
- Check the operation of all safety devices
- Connect the receiver, and "teach" the transmitter how to work with the system.
- Instruct the personnel who will be operating the system
- Complete the transfer form

- Potentiometer 1 Operating times up to 45 seconds (safety function only, i.e. set to longer than actually required).
- Potentiometer 2 Delay operation of second door up to 120 seconds.
- Potentiometer 3 Automatic admission up to 120 seconds.

REPLACEMENT PARTS 24 - 25

Declaration of Conformity

Automatic Gate OpenerModels SCS300K is in conformity to the applicable sections of StandardsEN55014, EN61000-3,EN60555, EN60335-1, & ETS 300 683 per the provisions & all amendments of the EU Directives73/23/EEC, 89/336EEC

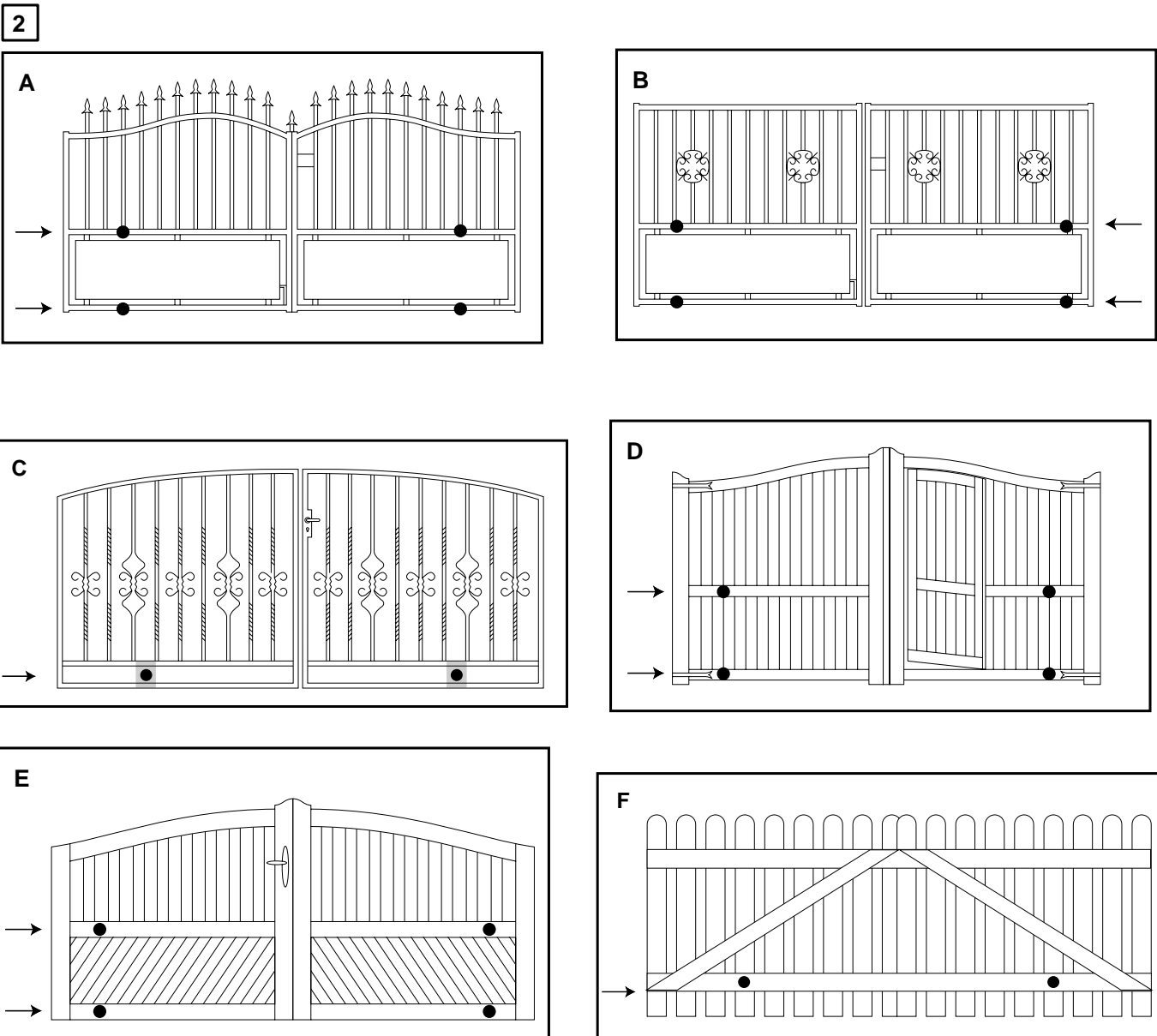
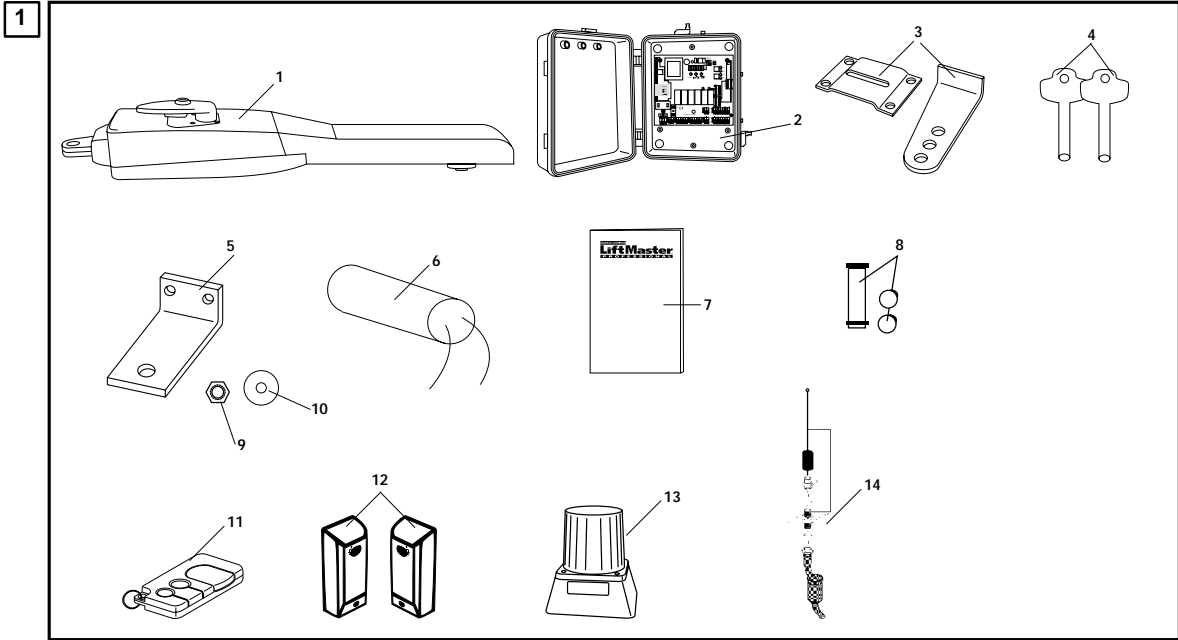
Declaration of Incorporation

Automatic Gate Opener Models SCS300K, 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.

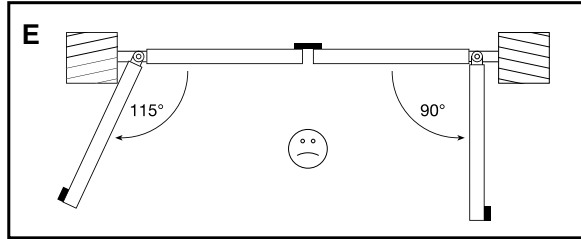
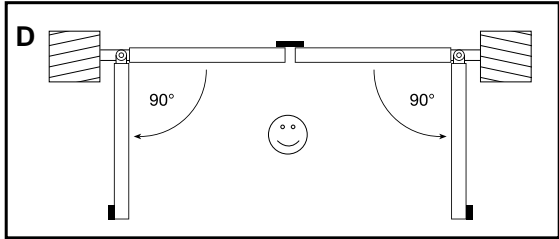
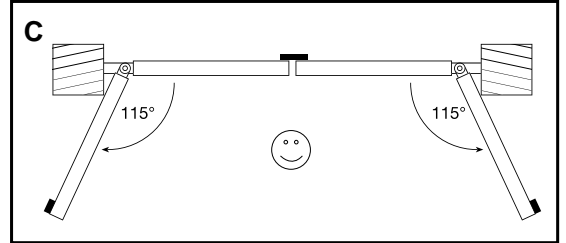
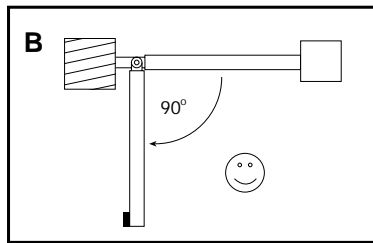
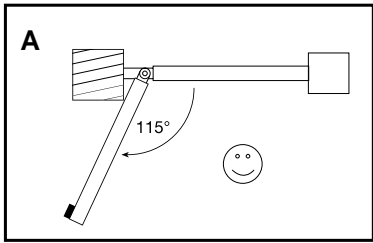
I, the undersigned, hereby declare that the equipment specified above and any accessory listed in the manual conforms to the above Directives and Standards.

Chamberlain GmbH
D-66793 Saarwellingen
August, 2001

Colin B. Willmott
Colin B. Willmott
Chief Engineer



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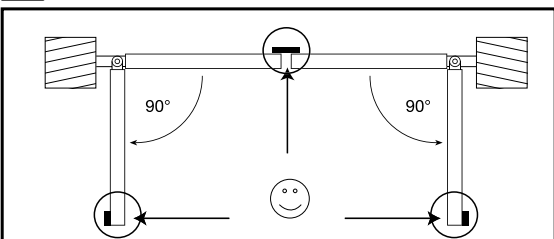


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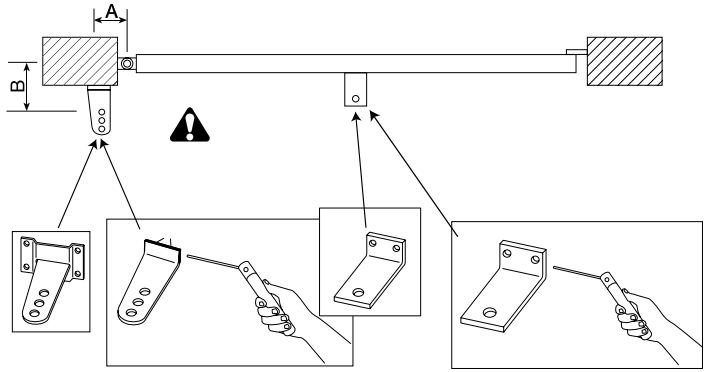
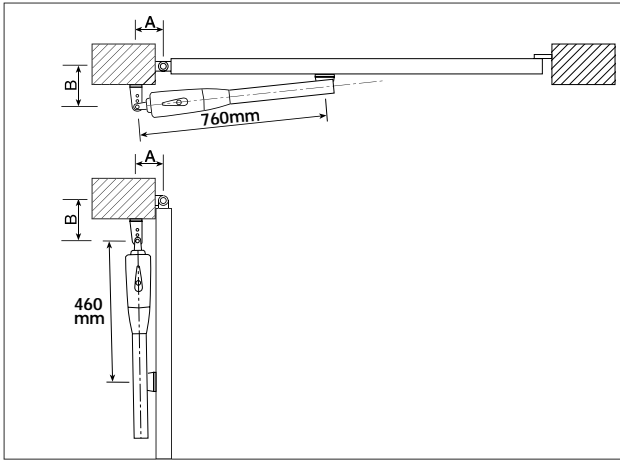
		A							
		10	12	14	16	18	20	22	
B	10		115°		110°	105°	100°		
	12		110°	121°	101°	100°	94°		
14		108°	105°	93°	100°	92°			
16		106°	95°	87°					
18			93°						
20									
22									

A=15cm = ca. 90°
B=15cm

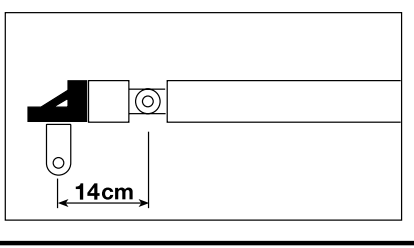
4



5 A



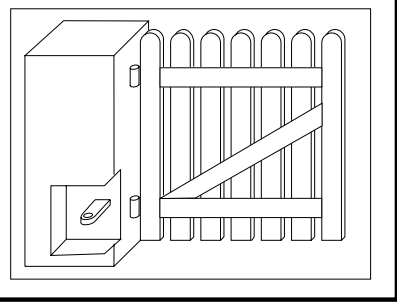
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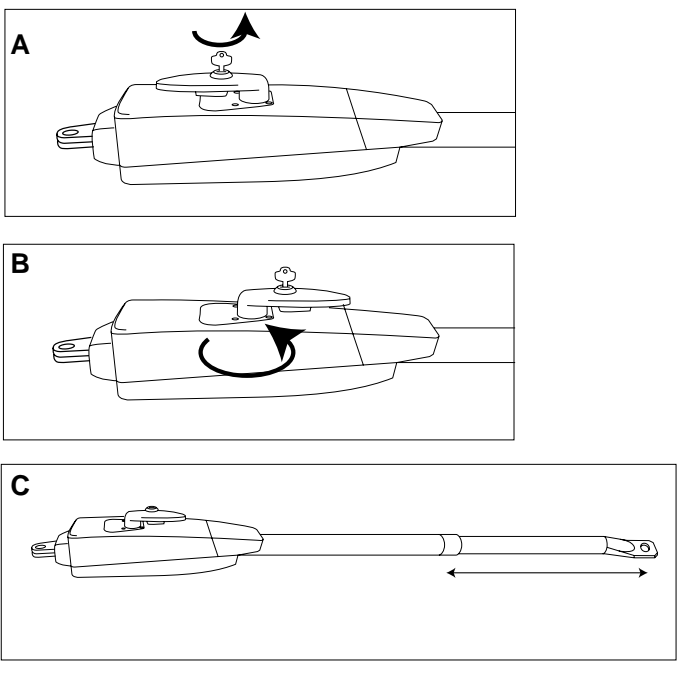
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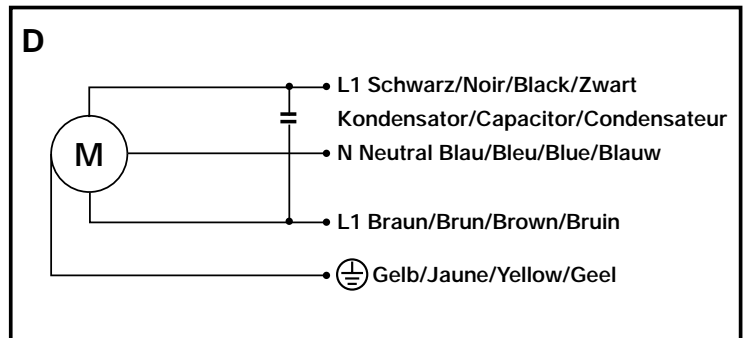
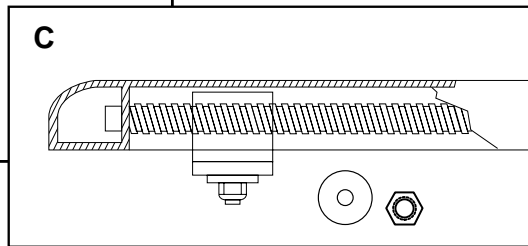
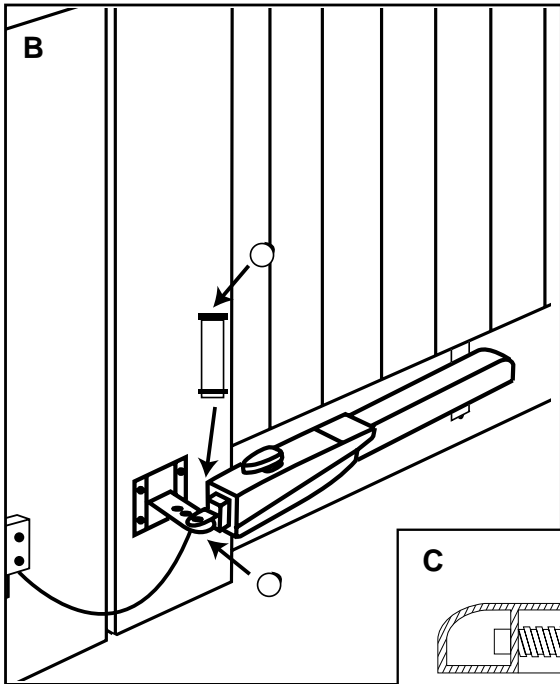
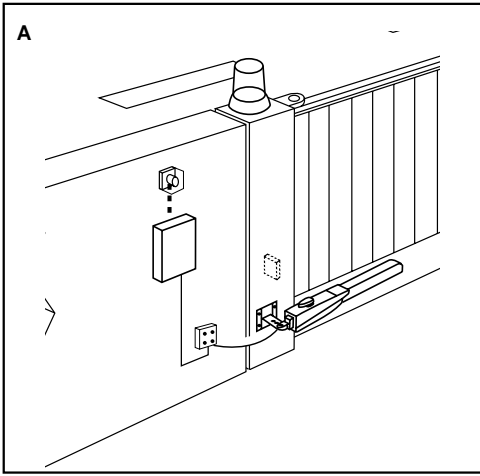


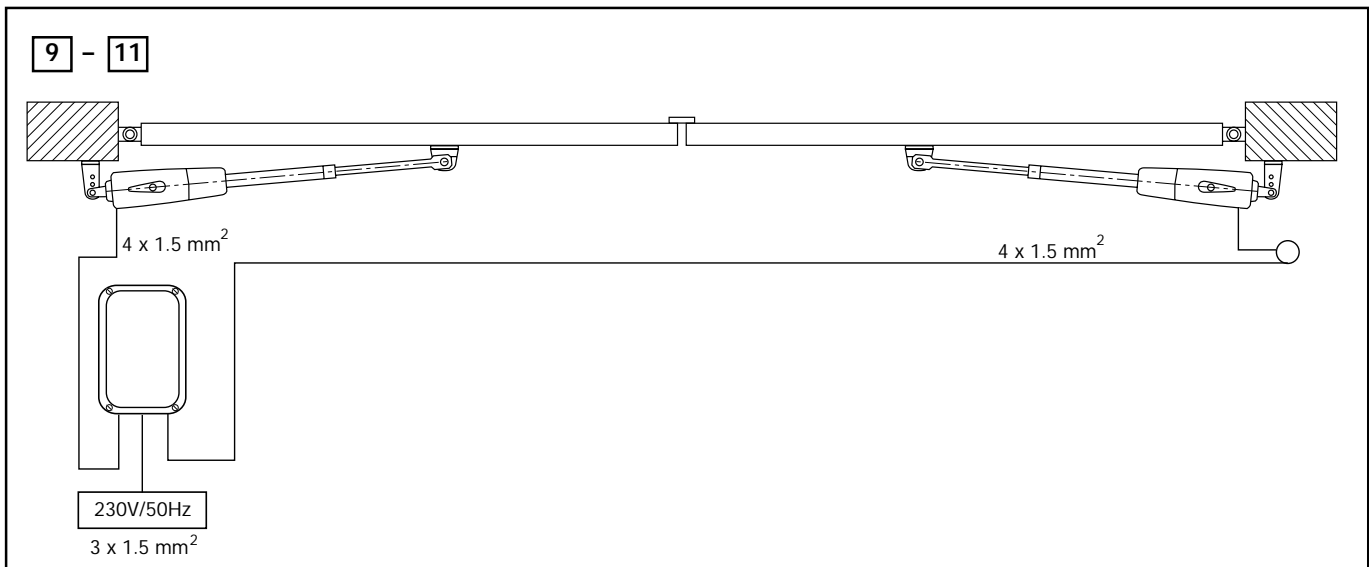
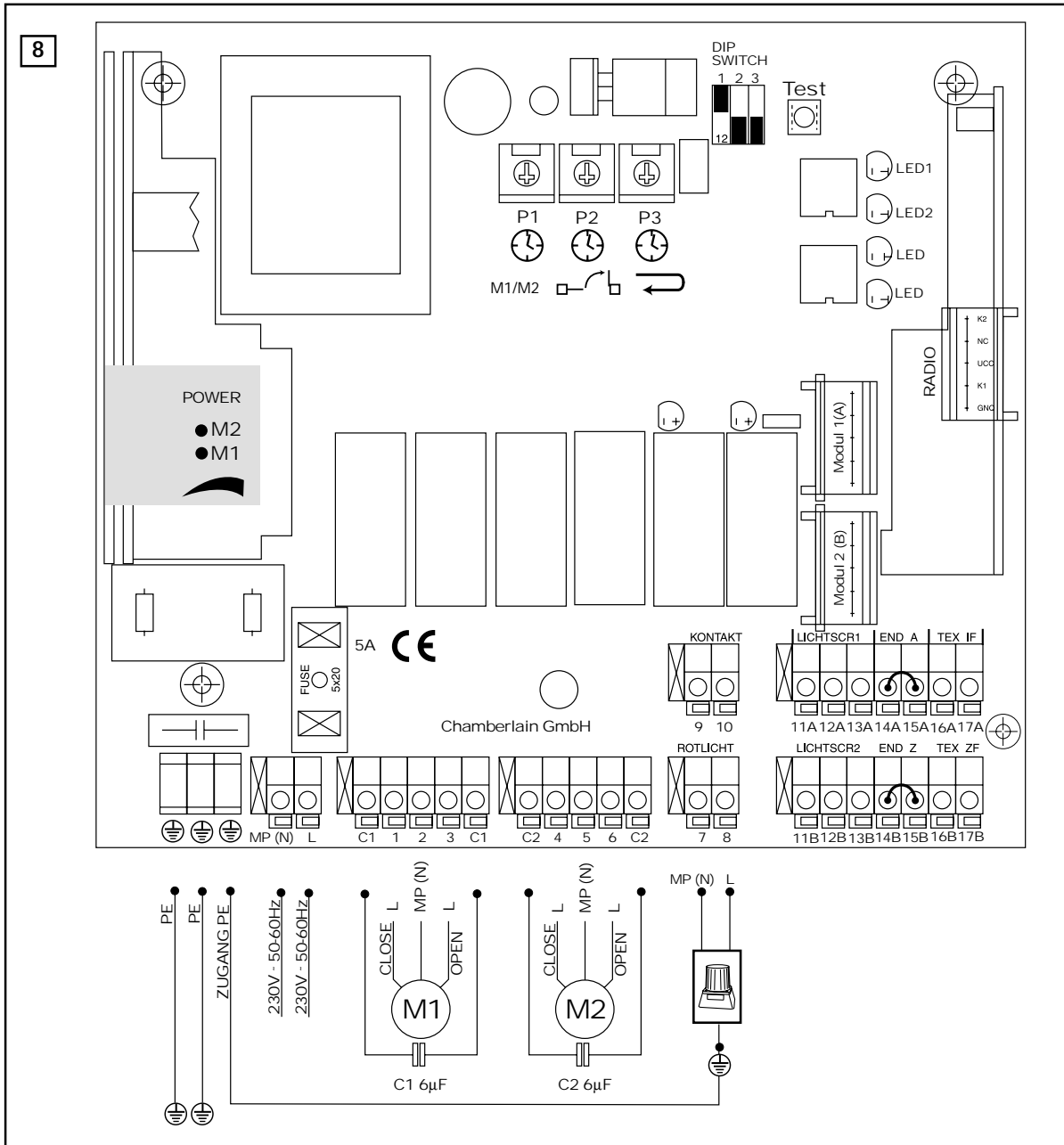
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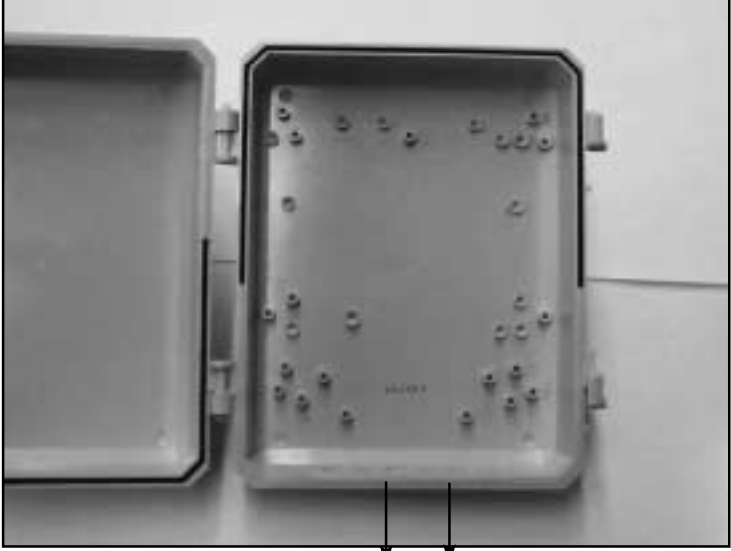
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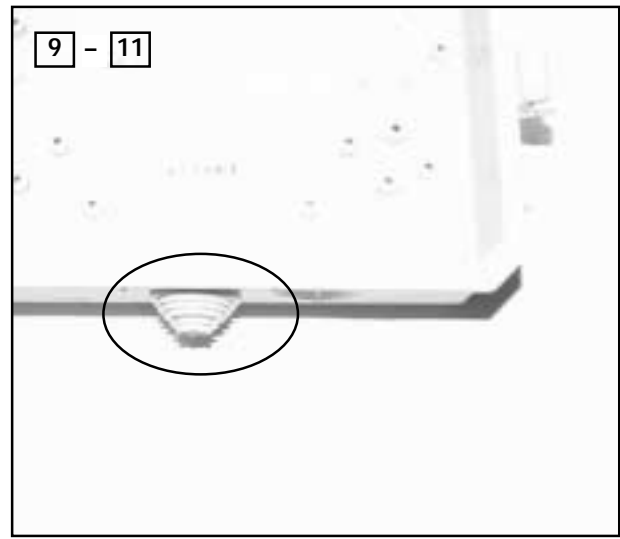




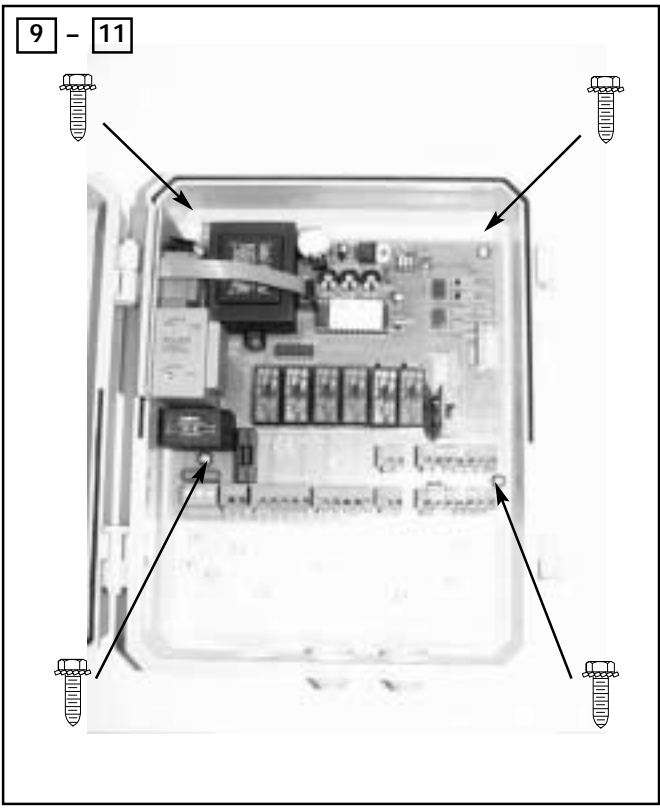
9 - 11



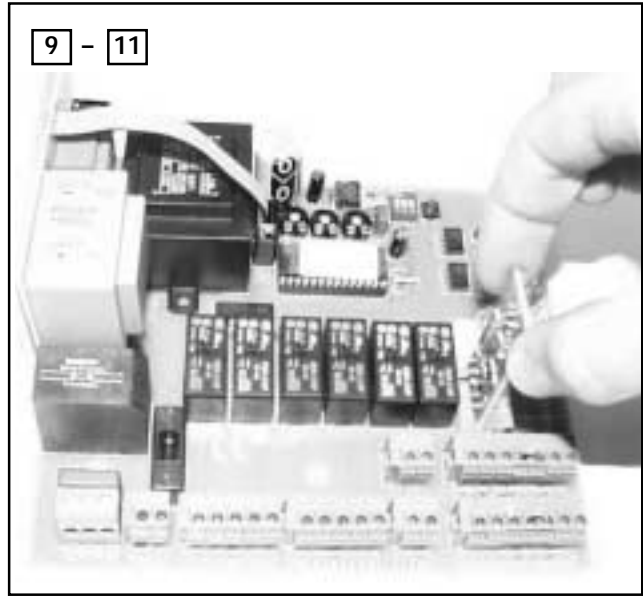
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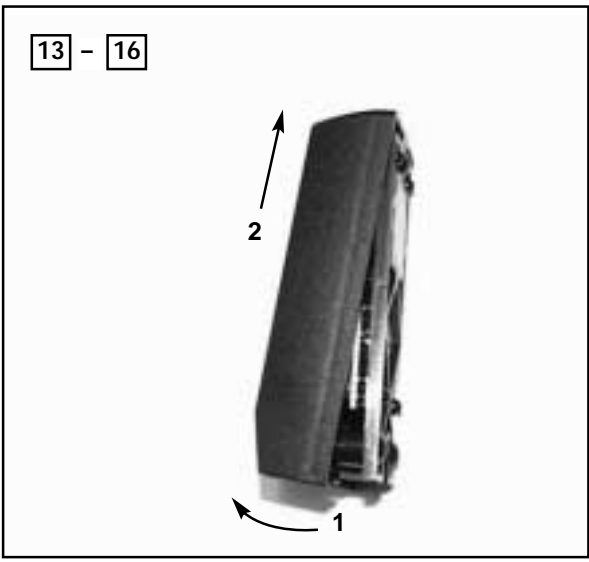
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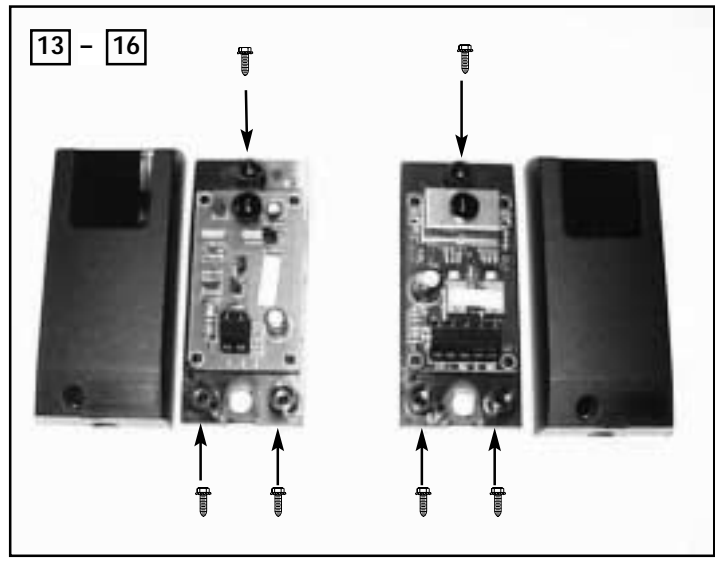
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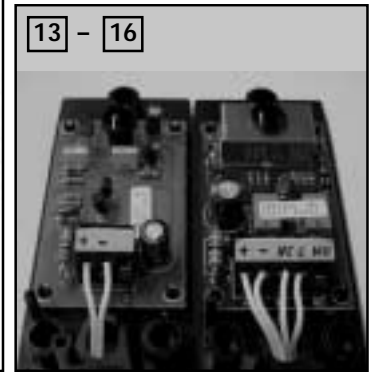
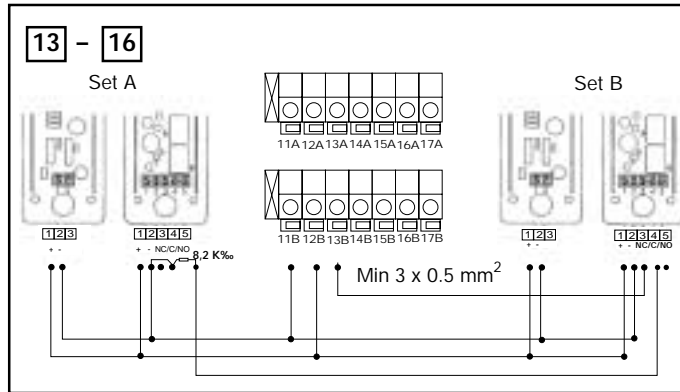
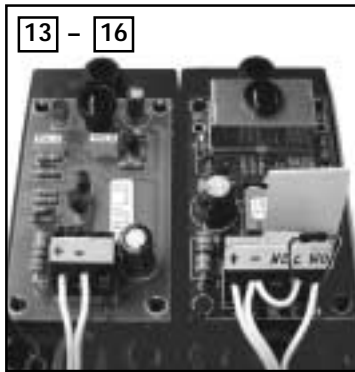
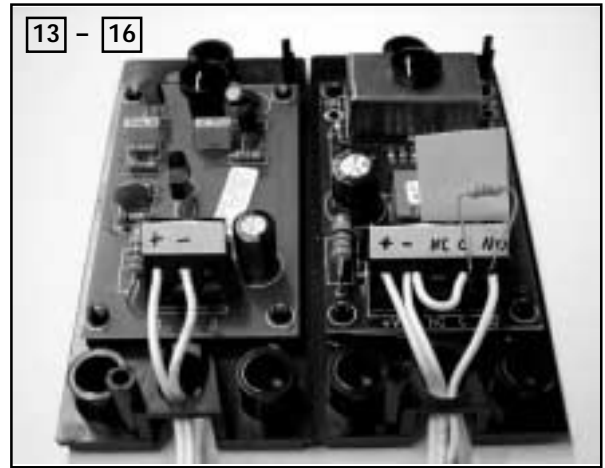
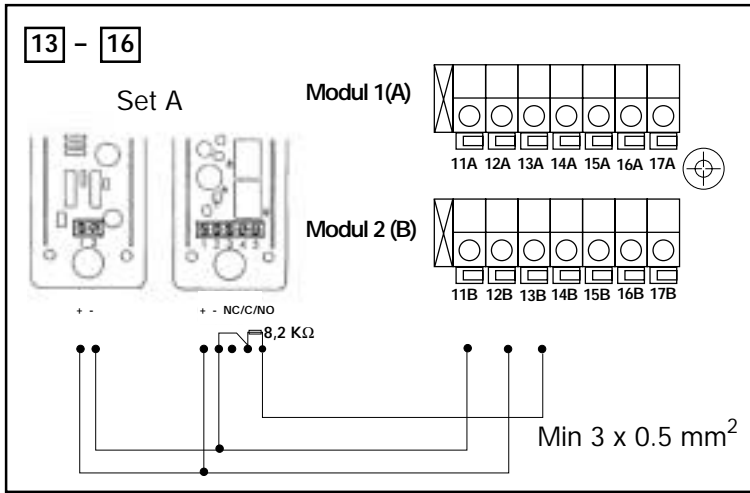
13 - 16



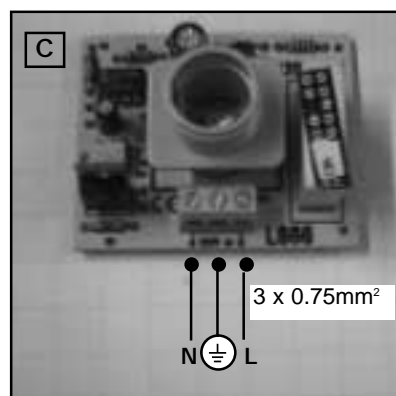
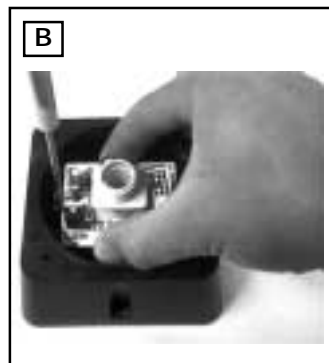
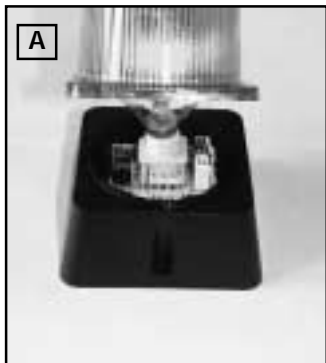
13 - 16



12



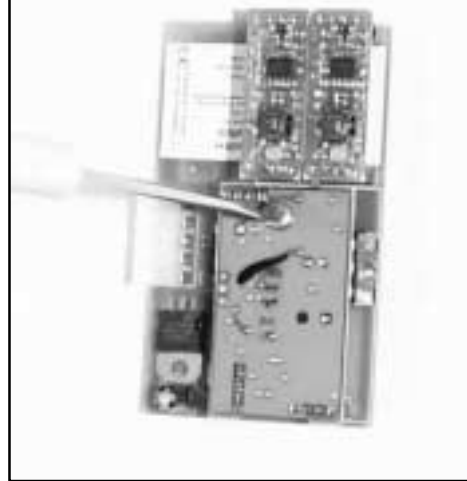
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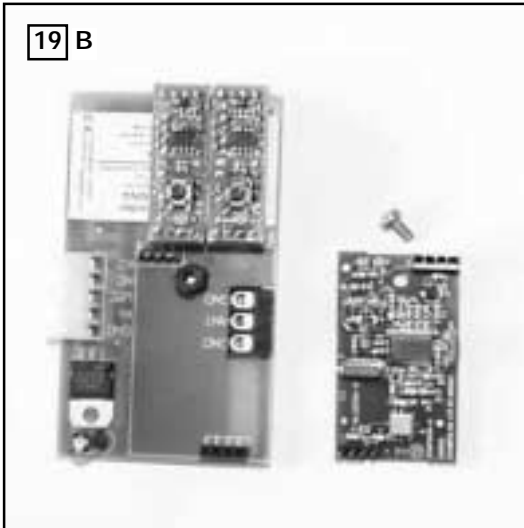
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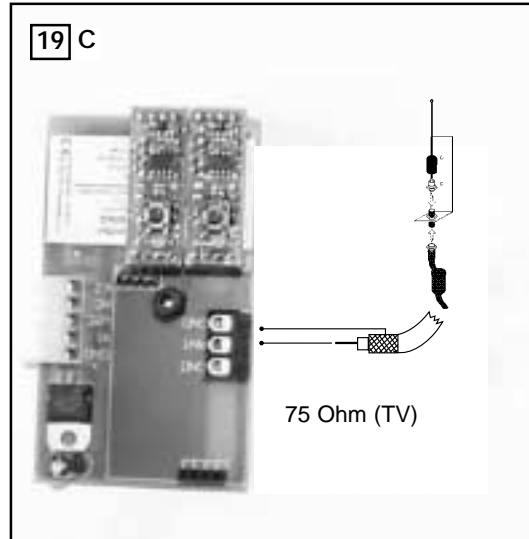
19 A

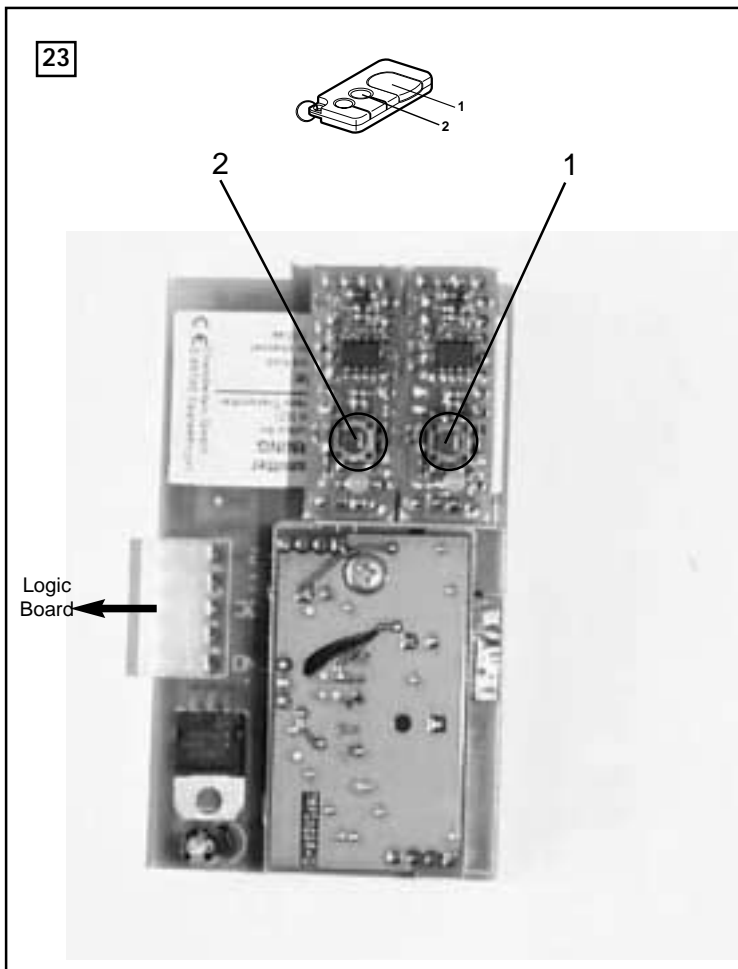
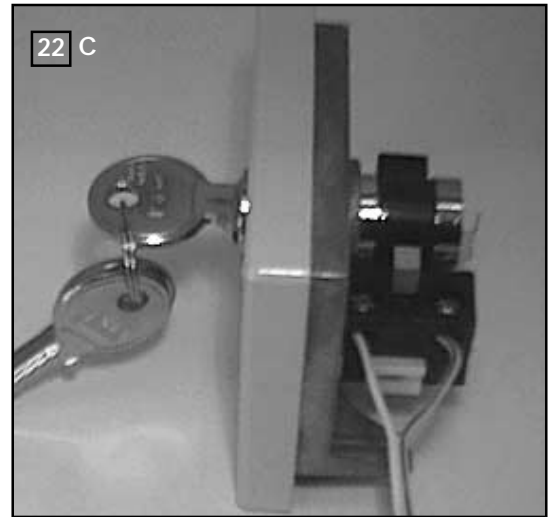
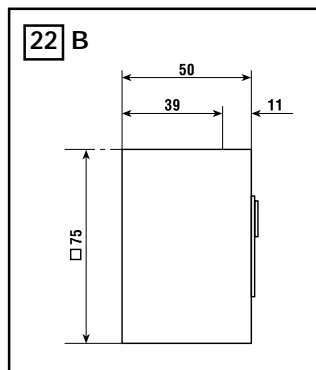
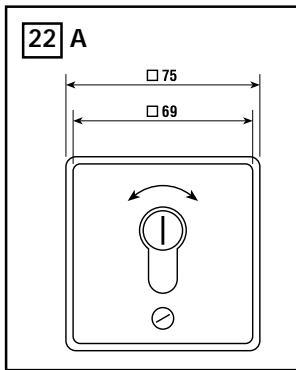
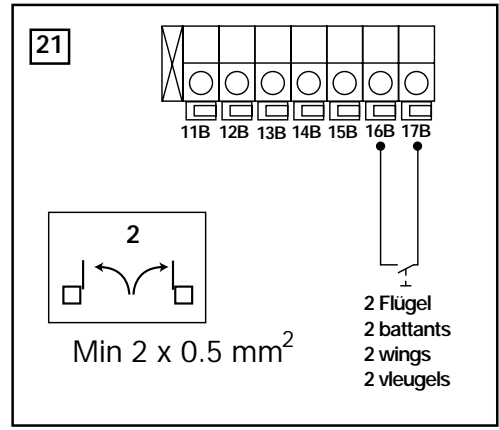
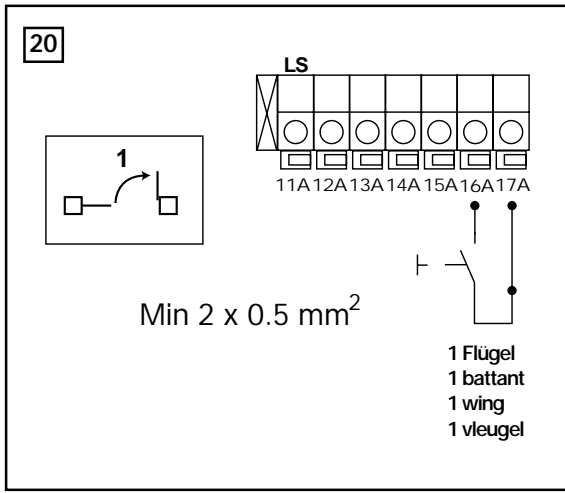


19 B



19 C





CHAMBERLAIN warrants to the first retail purchaser of this product that the product shall be free from any defect in materials and/or workmanship for a period of 24 full months (2 years) from the date of purchase. Upon receipt of the product, the first retail purchaser is under obligation to check the product for any visible defects.

Conditions: The warranty is strictly limited to the reparation or replacement of the parts of this product which are found to be defective and does not cover the costs or risks of transportation of the defective parts or product.

This warranty does not cover non-defect damage caused by unreasonable use (including use not in complete accordance with **CHAMBERLAIN's** instructions for installation, operation and care; failure to provide necessary maintenance and adjustment, or any adaptations of or alterations to the products), labor charges for dismantling or reinstalling of a repaired or replaced unit or replacement batteries.

A product under warranty which is determined to be defective in materials and/or workmanship will be repaired or replaced (at **CHAMBERLAIN's** option) at no cost to the owner for the repair and/or replacement parts and/or product. Defective parts will be repaired or replaced with new or factory rebuilt parts at **CHAMBERLAIN's** option.

This warranty does not affect the purchaser's statutory rights under applicable national legislation in force nor the purchaser's rights against the retailer arising from their sales/purchase contract. In the absence of applicable national or EC legislation, this warranty will be the purchaser's sole and exclusive remedy and neither **CHAMBERLAIN** nor its affiliates or distributors shall be liable for any incidental or consequential damages for any express or implied warranty relating to this product.

No representative or person is authorized to assume for **CHAMBERLAIN** any other liability in connection with the sale of this product.

GB

CHAMBERLAIN garandeert de eerste koper die het product in de detailhandel aankoopt (eerste "detailhandelaar") dat het, gerekend vanaf de datum van aankoop een gehele periode van 24 maanden (2 jaren) lang vrij is van iedere materiaalschade resp. fabricagefouten. Bij ontvangst van het product heeft de eerste detailhandelaar de plicht, dit op zichtbare beschadigingen te controleren.

Voorwaarden: De onderhavige garantie is het enige rechtsmiddel waarop de koper zich juridisch bij schade die verband houdt met een defect onderdeel resp. product resp. daaruit voortvloeit, kan beroepen. De onderhavige garantie is uitsluitend beperkt tot reparatie resp. vervanging van de onderdelen van dit product waarvan beschadiging wordt geconstateerd.

De onderhavige garantie geldt niet voor schade die niet aan gebreken maar aan het onjuist gebruik toegeschreven moeten worden (d.w.z. met inbegrip van ieder gebruik dat niet nauwkeurig overeenstemt met de instructies resp. aanwijzingen van de firma **CHAMBERLAIN** met betrekking tot de installatie, het gebruik en de verzorging, alsmede het verzuim om tijdig de vereiste reparatie- en afstelwerkzaamheden uit te voeren, resp. de uitvoering van aanpassingen of wijzigingen aan dit product). De garantie dekt ook niet de arbeidskosten voor het uitbouwen resp. het weer inbouwen van een gerepareerd resp. vervangen apparaat of de vervangende accu's daarvan. Een product in het kader van de garantie waarvan wordt vastgesteld dat het materiaalschade resp. fabricagefouten vertoont, wordt voor de eigenaar zonder kosten van reparatie resp. vervangende onderdelen gerepareerd resp. vervangen, zulks ter beoordeling aan **CHAMBERLAIN**. Mocht het product tijdens de garantietermijn defect blijken te zijn, neemt u dan contact op met het bedrijf waar u het oorspronkelijk heeft gekocht.

De garantie laat onverlet de rechten die de koper heeft in het kader van nationale wetten of bepalingen die van toepassing zijn of de rechten tegenover de detailhandelaar, welke voor de koper voortvloeien uit de verkoop/koopovereenkomst. Indien er geen nationale wetten resp. EU-wetten bestaan die van toepassing zijn, is deze garantie het enige, exclusieve rechtsmiddel dat de koper ter beschikking staat en noch

CHAMBERLAIN noch de filialen of handelaren van deze firma zijn aansprakelijk voor enigerlei neven- of gevolgschade op grond van welke expliciete of stilzwijgende garantie met betrekking tot dit product ook. Noch vertegenwoordigers noch enige andere personen zijn gerechtigd, namens **CHAMBERLAIN** enige andersluidende verantwoording in verband met de verkoop van dit product op zich te nemen.

NL