Merlin®

my**Q** capable

battery backup compatible

CHOOSE SAFETY · CHOOSE MERLIN

Slide 600   MGSK600 / MGSK600-LV

Complete Instruction Manual for the Slide 600 MGSK600 & MGSK600-LV can be accessed through these QR Codes.

NOTE: The complete Instruction Manual needs to be referred to for the complete correct installation and setup process.

MGSK-600
(MIANS VOLTAGE)

MGSK-600-LV
(LOW VOLTAGE)

SAFETY INSTRUCTIONS - WARNING!
START BY READING THESE IMPORTANT SAFETY INSTRUCTIONS

• Failure to comply with the following instructions may result in serious personal injury or property damage.

• Read and follow all instructions carefully (**The complete Instruction Manual needs to be referred to for the complete correct installation and setup process.**)

• The gate opener is designed and tested to offer safe service, provided it is installed and operated in strict accordance with the instructions in this quick reference guide.

Before you begin the installation (The complete Instruction Manual needs to be referred to for the complete correct installation and setup process):

This product must be installed by a professional installer.

The installer must understand the following:

• The operation of the drive and potential hazards

• The operation of the manual emergency release mechanism

• The regular maintenance, inspection and care according to the standards

• The installer must instruct other uses on the safe operation of the gate opener

Please read the operating instructions and especially the precautions. The following symbols are placed in front of instructions to avoid personal injury or damage to property. Read these instructions carefully.

Warning Symbols
The general warning symbol indicates a danger that can lead to injuries or death. In the text section, the general warning symbols are used as described below.

DANGER Symbol	WARNING Symbol	CAUTION Symbol	ATTENTION Symbol
⚠ **DANGER**	⚠**WARNING**	⚠ **CAUTION**	**ATTENTION**
Indicates an imminent hazardous situation which, if not avoided, will result in death or serious injury.	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.	Indicates practices not related to personal injury.

Intended Use
The gate opener is exclusively designed and tested for the operation of smooth-running residential gates.

The maximum permissible gate size and the maximum weight must not be exceeded. The gate must open and close smoothly by hand. Use the opener on gates which comply with the applicable standards and guidelines. Regional conditions of wind loads must be taken into account when using door or gate panels. Observe the manufacturer's specifications regarding the combination of gate and opener. Possible hazards within the meaning of AS/NZS 60335.1 in conjunction with AS/NZS 60335.2.103 are to be avoided by designing and installing the gate according to the relevant instructions. This gate mechanism must be installed and operated in accordance with the appropriate safety rules.

Improper Use
The construction of the gate opener is not designed for the operation of heavy-duty gates. It is not permitted on gates that travel with incline/decline.

Any improper use of the gate opener could increase the risk of accidents. The manufacturer assumes no liability for such usage. With this gate opener, automated gates must comply with the current, valid local standards, guidelines and regulations, AS/NZS 60335.1 in conjunction with AS/NZS 60335.2.103.

Only Merlin genuine and approved accessories may be connected to the gate opener. Incorrect installation and/or failure to comply with the following instructions may result in serious personal injury or damage to property.
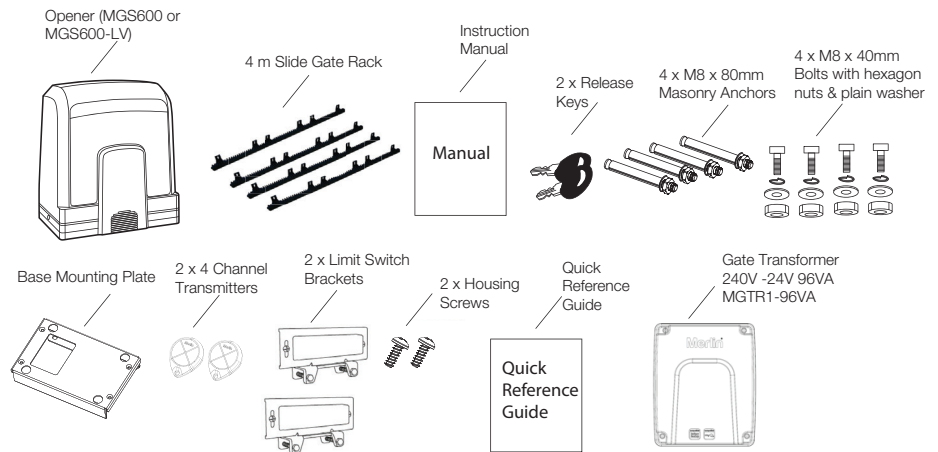
QUICK REFERENCE GUIDE

STEPS 1-5 INSTALLATION

1

Take out each of the items included in the sales kit.

Note that low voltage sales kit MGSK600-LV includes gate transformer (MGTR1-96VA).

Opener (MGS600 or MGS600-LV)

4 m Slide Gate Rack

Instruction Manual

Manual

2 x Release Keys

4 x M8 x 80mm Masonry Anchors

4 x M8 x 40mm Bolts with hexagon nuts & plain washer

Base Mounting Plate

2 x 4 Channel Transmitters

2 x Limit Switch Brackets

2 x Housing Screws

Quick Reference Guide

Quick Reference Guide

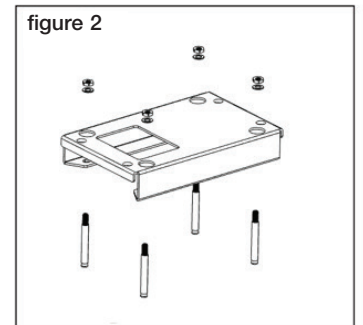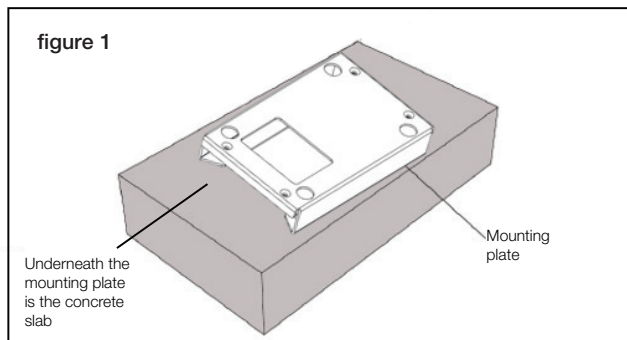Gate Transformer 240V -24V 96VA MGTR1-96VA

2 INSTALLING THE BASE MOUNTING PLATE

1. Position the base mounting plate as required, referring to the planning section (figure 1).
2. Mark and drill the four masonry anchor holes (figure 2).

NOTE: Position the power cord through the base mounting plate before mounting the base plate.

3. Mount the base mounting plate to the ground or concrete pad using the four masonry anchors provided.
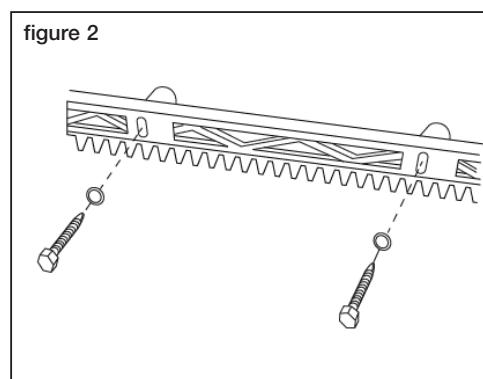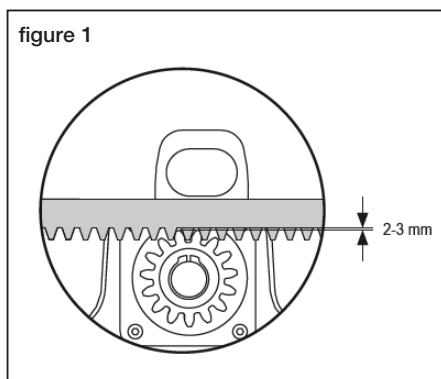
NOTE: Ensure the base mounting plate is orientated in the correct way. The arrow on the base mounting plate needs to be set towards the gate.

figure 1

Underneath the mounting plate is the concrete slab

Mounting plate

figure 2

3 GATE RACK MOUNTING

1. Manually move the gate into OPEN position.
2. The nylon rack can be attached with screws. Put the first rack segment at the end of the gate so that it rests on the opener drive sprocket (figure 1) and attach the rack to the gate (figure 2).
3. Move the gate and attach the next rack segment near to the previous segment. Proceed this way until you will reach complete CLOSED position.

NOTE: If the rack is already fixed to gate, it may be required to adjust the height of the gate opener to ensure correct engagement of the drive gear with the gate rack.
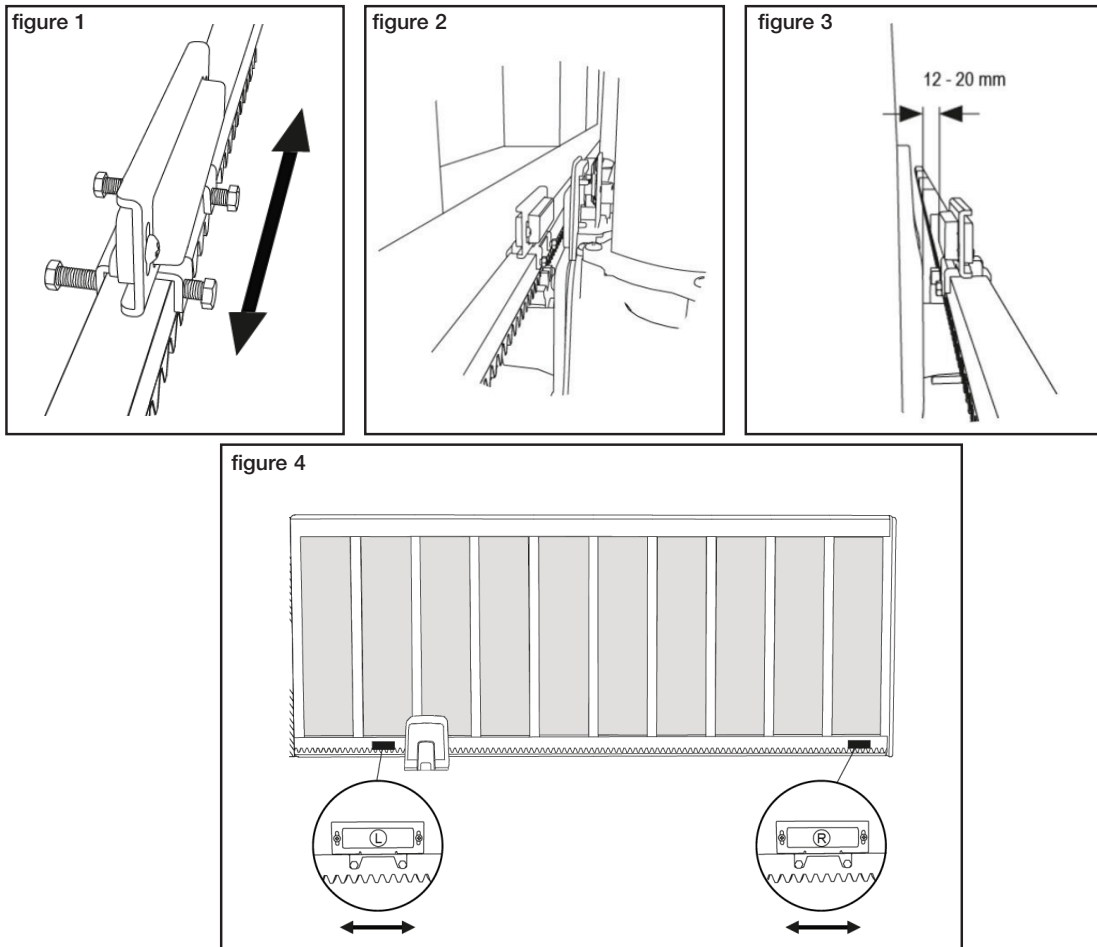
figure 1

2-3 mm

figure 2

QUICK REFERENCE GUIDE

4 INSTALLING THE LIMIT SWITCH BRACKETS

1. Position the limit switch brackets in the approximate open and close positions on the rack. Loosely attach the brackets to the rack. The magnets are marked "L" and "R". L positioned on the left of the rack, while R is positioned on the right of the rack when looking from inside the property. When attaching the brackets, ensure that the magnets are 12mm to 20mm from the limit switch sensor on the opener.

2. Place the housing cover over the opener and move the gate manually to the open and close positions to ensure that the limit switch brackets do not come into contact with the gate structures or the gate opener. Position the magnets so that they will align with the sensor mounted on the opener when the gate is approximately 10mm from the OPEN or CLOSED position. This will allow for the Basic Setup to be completed without the gate hitting the stops too hard.
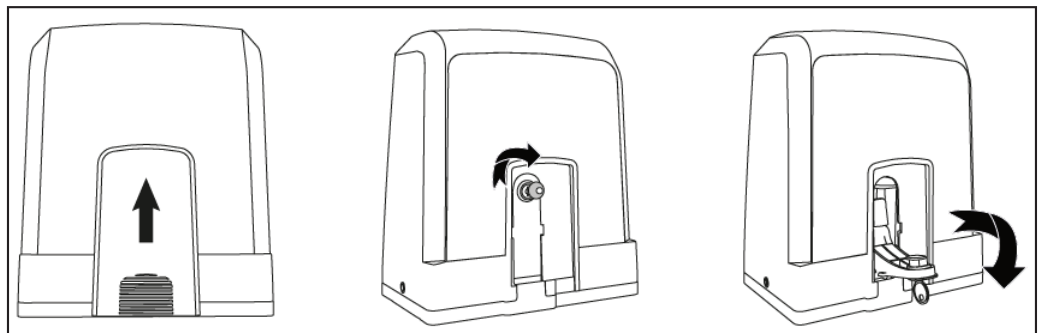
NOTE: After Basic Setup, fine tuning of the Limit Switch Mounting Brackets to allow the gate to open and close fully.

figure 1

figure 2

figure 3

12 - 20 mm

figure 4

5 DISENGAGEMENT OF THE MANUAL RELEASE

1. Remove the small front plastic cover from the operator.

2. Put the key into keyhole and turn right.

3. Pull the lever down.

NOTE: To re-engage the opener follow the procedure in reverse.

QUICK REFERENCE GUIDE

COMMISSIONING AND PROGRAMMING
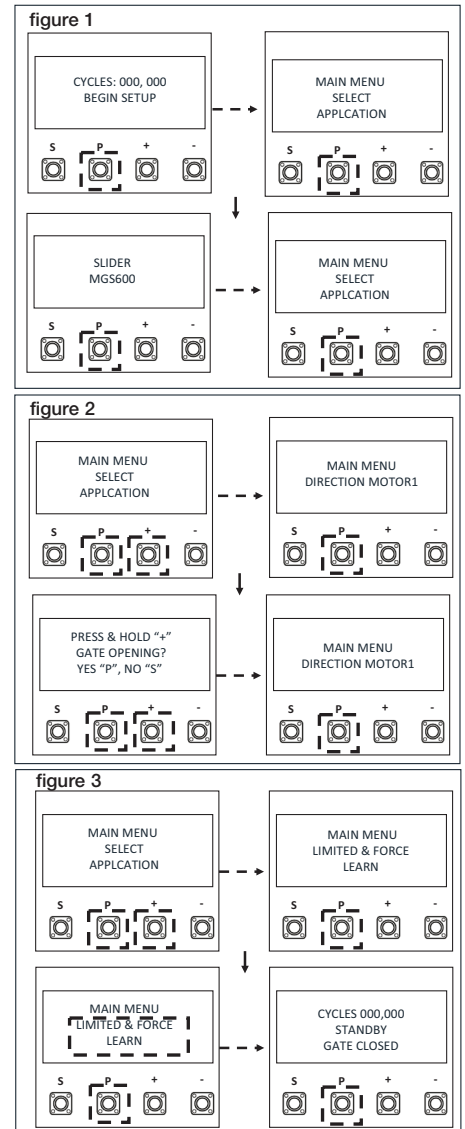
1 PROGRAMMING - INITIAL SETUP

Energise the opener. Release the opener manual release with the key, and move the gate(s) to a mid open position. Re-engage the manual release.

The LCD screen will display the Cycle count.

1. Press and hold the "P" button for approximately 5 seconds to enter into the Main Menu. MAIN MENU SELECT APPLICATION will be displayed on the LCD.

2. Press the "P" button once to enter this Menu option.

3. Use the "+" or "-" to scroll though the motor application options. When "SLIDER MGS600" is shown, press the "P" button to select. The screen will change to show MAIN MENU SELECT APPLICATION.

4. Press the "+" button once to scroll to the next menu option. "MAIN MENU DIRECTION MOTOR1" will be displayed on the LCD.

5. Press the "P" button to select. The screen will change to show PRESS & HOLD "+" GATE OPENING? YES "P", NO "S".

6. Press and hold "+". The gate will start to move.

    a) If it moves in the OPEN direction, press "P" to confirm". The screen will change to show MAIN MENU DIRECTION MOTOR1

    b) If the gate moves in the CLOSE direction, press "S" to confirm. The screen will change to **EXECUTE MOTOR DIRECTION CHANGE.** Press "P" to confirm. Once the direction has been confirmed, the screen will change to MAIN MENU DIRECTION MOTOR. If there is a second slide gate opener to be setup, press the "+" button to scroll to the next menu option "MAIN MENU DIRECTION MOTOR2 and follow the steps 5 and 6.

7. Press the "+" button once to scroll to the next menu option. "MAIN MENU LIMIT&FORCE LEARN" will be displayed on the LCD.

8. Press the "P" button to select. **The gate will start to move.** The screen will change and LIMIT&FORCE LEARN will flash on the screen.

9. Once complete, the gate will stop moving and the screen will change to CYCLES: 000,000 STANDBY GATE CLOSED.

Initial setup is now complete. The opener will now operate using default Basic Settings.

NOTE: If the LIMIT&FORCE LEARN setup needs to be stopped, press the "S" button. The Screen will display LIMIT&FORCE LEARN INTERRUPTED. After 5 seconds, the screen will display LIMIT&FORCE LEARN. Repeat step 8 to complete basic setup.

figure 1

| CYCLES: 000, 000 BEGIN SETUP | MAIN MENU SELECT APPLCATION |
| SLIDER MGS600 | MAIN MENU SELECT APPLCATION |

figure 2

| MAIN MENU SELECT APPLCATION | MAIN MENU DIRECTION MOTOR1 |
| PRESS & HOLD "+" GATE OPENING? YES "P", NO "S" | MAIN MENU DIRECTION MOTOR1 |

figure 3

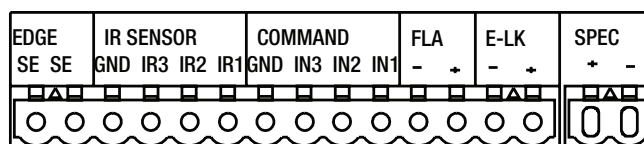| MAIN MENU SELECT APPLCATION | MAIN MENU LIMITED & FORCE LEARN |
| MAIN MENU LIMITED & FORCE LEARN | CYCLES 000,000 STANDBY GATE CLOSED |

INSTALL ENTRAPMENT DEVICES

THE PROTECTOR SYSTEM™ (IR BEAMS) (OPTIONAL)

NOTE: Merlin strongly recommends that The Protector System™ (IR Beams) be installed on all gate openers.

Compatible Protector System™ (IR Beams) are 772ANZ and GPS15 Monitored Safety Beams.

The Protector System™ (IR Beams) can be configured to function differently when connected to IR1, IR2 or IR3 inputs.

1. Connect the Protector System™ (IR Beams) to IR1/GND or IR2/GND and or IR3/GND.

2. The IR Beams can be configured to monitor in the open or close direction or both (see section 23 IR Behaviour).

3. The IR Beams will automatically learn to the opener after they have been connected and are default to monitor the close direction.

4. If you need to remove the IRs, you will need to unlearn them from the opener. This is done by switching off the mains power off and on again twice.

EDGE		IR SENSOR				COMMAND				FLA		E-LK		SPEC	
SE	SE	GND	IR3	IR2	IR1	GND	IN3	IN2	IN1	–	+	–	+	+	–

EDGE SENSOR

The Edge sensor can only be connected to the Edge inputs.

1. Remove the 8.2k resistor from the Edge inputs.

2. Connect the 8.2k compatible edge sensor to the Edge inputs.

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