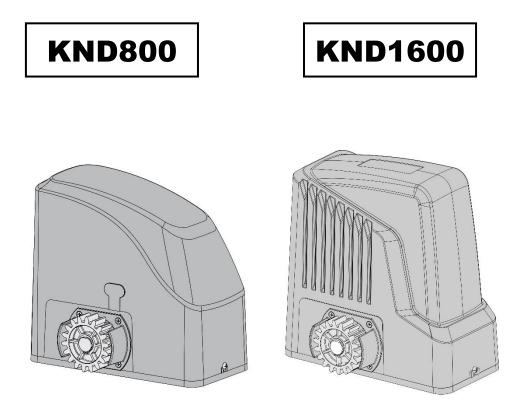


# **Sliding Gate Opener User Manual**



- ★ Please read and follow all warnings, precautions and instructions before installation and use.
- ★ Periodic checks of the opener are required to ensure safe operation.
- ★ For residential use only
- ★ Keep this manual and refer to it when necessary.
- ★ For installation or troubleshooting assistance visit ausauc.com.au/contact



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Thank you for purchasing the KENNER sliding gate opener. We are sure that our products will provide satisfaction and trouble free operation as soon as you start to use them.

The product is supplied with a user manual which includes installation and safety precautions. These should be read carefully before installation and operation as they provide important information about safety, installation, operation and maintenance. This product complies with the recognised technical standards and safety regulations.

# **General Safety**

WARNING! Incorrect installation or improper use of the product can cause damage to persons, animals or property.

• Do not install the product in a flammable atmosphere, or in a location where there is a possibility of flooding.

• Please ensure that the input voltage to the low voltage power supply matches the supply voltage of the gate opener (AC240V 50Hz).

• Ensure that the power cable is connected to a RCD protected power outlet that has been installed by a qualified electrician.

• Fit an omnipolar or magnetothermal switch on the mains power supply, having a contact opening distance equal to or greater than 3.5 mm.

• Fit all the safety devices (photocells, safety edges etc.) which are needed to protect people and property in the automation operation area from crush or shear injuries, collisions, dragging, or entrapment. Consider the use of markings and physical barriers to eliminate hazards from moving parts. Consult relevant Australian safety standards and laws to ensure the design, installation, and operation of your gate complies.

• Any devices that operate the gate must be placed at least 1.8m from any moving part of the gate, to prevent people reaching over, under, around or through the gate to operate the controls.

• Install at least one visible indication device, such as a flashing light, and ensure warning signs are permanently mounted to both sides of the gate.

• To avoid damaging gas, power or other underground utility lines, contact the relevant authority BEFORE digging.

• Before installing the gate opener, check that all moving parts as well as the sliding gate is in good mechanical condition, correctly balanced, and opens and closes properly.

• Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.

• Check that earthing is carried out correctly: connect all metal parts for closure (doors, gates etc.) and all system components provided with an earth terminal.

• Never allow anyone to hang onto the gate while moving.

• Do not allow adults or children to remain in the automation operation area.

• Keep radio control or other control devices out of children's reach, in order to avoid unintentional automation activation.

• Instruct all users about the control systems provided and manual operation in case of emergency.

• The user must not attempt to carry out work or repairs on the automation system and must always ensure works or repairs on the automation system are done by qualified personnel.

• This motor is suitable for use on one gate only.

• This product was exclusively designed and manufactured for the use specified in this manual. Any other use not specified in this documentation could damage the product or cause injury.

• The manufacturer declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.

• The manufacturer declines all responsibility for any consequences resulting from improper use of the product, or any use which is different from that expected and specified in this manual.

• Do not modify the automation components, unless explicitly authorised by the manufacturer and supplier.

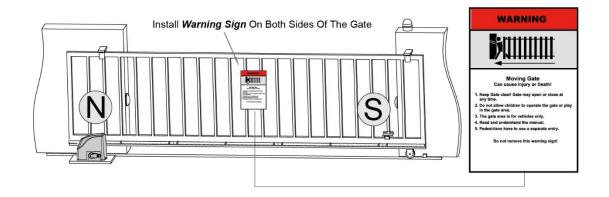
• Only use original parts for any maintenance or repair operation.

• The manufacturer and supplier decline all responsibility with respect to the automation safety and correct operation when other supplier's components are used.

• Anything which is not expressly provided for this manual is not allowed and will void warranty.

• Dispose of packing materials (plastic, cardboard, polystyrene etc.) according to the provisions set out by current standards. Keep plastic bags out of children's reach.

• Keep this manual and refer to it when necessary.



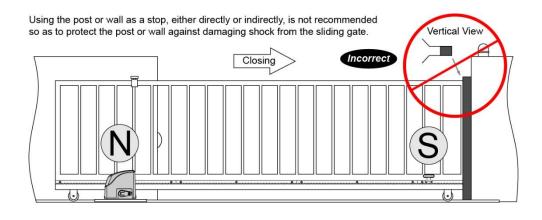
# **Preparation for Installation**

Before proceeding to your opener installation, check if your gate structure is in accordance with the current standards, especially as follows:

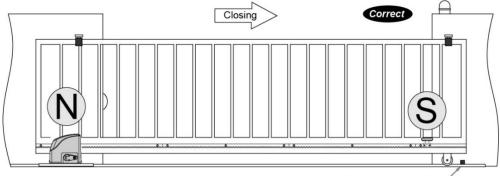
- The gate sliding track is linear and horizontal, and the wheels are suitable, the gate should be mounted and moving freely.
- Check that the structure is sufficiently strong and rigid.
- Make sure that the gate is plumb and level.
- The fence posts must be mounted in concrete.
- The gate should not bind or drag on the ground.
- The opening and closing gate stops are in position.

**WARNING:** Remember that control devices are intended to facilitate gate operation but cannot solve problems due to any defects or deficiency resulting from failure to carry out correct installation or maintenance. Take the product out of its packing and inspect it for damage. Should it be damaged, contact your dealer. Remember to dispose of packing materials (cardboard, polystyrene, nylon, etc.) according to the current standards.

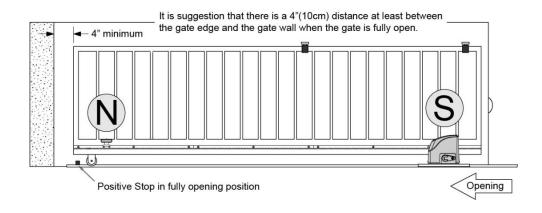
Refer to the following Figures for gate installation.



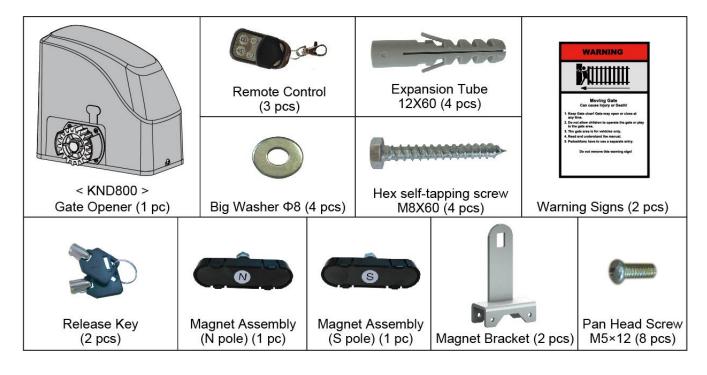
For the sake of safety, a positive stop must be mounted at both ends of ground track.



Positive Stop in fully closed position



# Parts List



	Remote Control (3 pcs)	And	chor Bolt (4 pcs)	Φ10 Washer (4 pcs)	WARNING	
			0	$\bigcirc$	Core and adjust achitements or spanneds from games are regarder some and any adjust achitement of the second Core and a second	
< KND1600 > Gate Opener (1 pc)	Release Key (2 pcs)	Ф10 Lock Washer (4 pcs)		M10 Nut (4 pcs)	Warning Signs (2 pcs	5)
					Januar	
Magnet Assembly (N pole) (1 pc)	Magnet Assembly (S pole) (1 pc)		Magnet Bracket (2 pcs)		Pan Head Screw M5×12 (8 pcs)	

# **Optional Accessories Parts List**

Optional			
Back up battery (1 set)	External Receiver	Wall push button	Wireless Push Button
(KNL125)	(1 pc) (KNL138)	(1 pc) (KNL147)	(1pc) (KNL173)
Back up battery box(1 pc)	Alarm Lamp (1 pc)	Photocell Beam System	Exit Wand
(KNL130)	(KNL140)	(1 set) (KNL102)	(1 pc) (KNL157)
Solar Controller (1 pc)	Solar panel (1 pc)	Supporting frame for solar	Bracket for solar panel
(KNL117 / KNL118)	(KNL109)	panel (1 pc) (KNL115)	(1 pc) (KNL116)
Wireless Keypad (1 pc) (KNL172)	Wired Keypad (KNL106/24) ID card (KNL170)	Mounting post for keypad (1 pc) (KNL107)	Retro-reflective Photocell (1pc) (KNL104B)

# **Technical Specifications & Features**

Specifications			
	KND800	KND1600	
Power input:	220~240V/50Hz		
Motor voltage:	24VDC		
Rated power:	180W	450W	
Gate moving speed:	21 cm/s (8.3 in/s)		
Max torque:	15Nm	30Nm	
Environmental conditions:	-22°C~ +55°C (-4°F to 122°F)		
Protection class:	IF	244	

# Features:

- · Pedestrian mode.
- · Quick selection for the gate open/close direction
- · Reliable rolling code technology for remote control
- · Emergency release key in case of power failure
- · Stop in case of obstruction during gate opening
- · Reverse in case of obstruction during gate closing

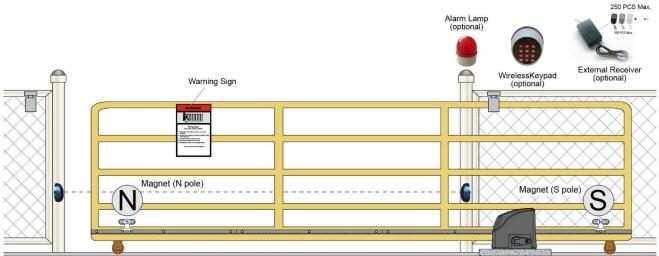
Built in adjustable auto-close (none, 30, 60, 90 seconds)

 Built in max. Motor Running Time (MRT) for multiple safety protection (90 seconds)

Reliable electromagnetism limit for easy adjustment

Can be equipped with a wide range of accessories

· Easy to install, and minimum maintenance required



## Installing the Opener

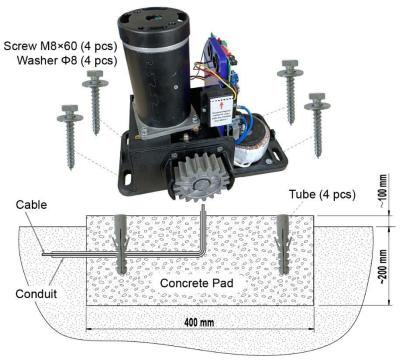
#### Caution:

\* Be sure that the opener is installed in a level and parallel position and is properly secured. Improper installation could result in property damage, severe injury, and/or death.

\* Before starting installation, ensure that there is no point of friction during the entire movement of the gate and there is no danger of derailment.

\* Ensure that the safety side panels are present.

**Necessary Tools:** The following tools may be necessary to install the gate opener. Screwdrivers, power drill, wire



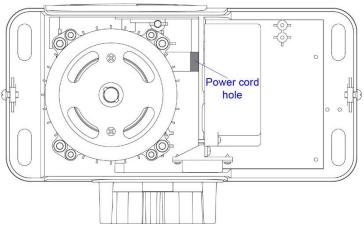
cutters and a wire stripper, a socket set, tape measure and level.

#### **Installation Overview**

Prior to installing the opener, you should have or build a concrete pad to support the base plate of opener in order to maintain proper stability.

#### The installation proceeds are as follows:

**1.** Dig a hole for a concrete pad which should be approximately  $40 \times 24 \times 30$  cm (16"x 9.5"x 12"). It may protrude 10 cm (4") above ground and 20 cm (8") in depth underground. Increase the pad height if necessary to protect the system from flooding, heavy snow etc.



**2.** Prepare one or more conduits for the electrical cables before pouring concrete. Remember that cable conduits have to pass through the hole in the opener base.

3. Pour concrete and before it starts to harden, check that it is parallel to the gate leaf and perfectly level.

**4.** Make sure the positions of the expansion tubes are placed according to the position of mounting holes on the opener base.

**5.** Mount the opener to the concrete Pad. This is a temporary installation. Further adjustment will be required when installing the rack.

# **Manual operation**

You can open the gate manually during a power failure. The opener should also be put in the manual (emergency release) position before fitting the rack, and installing the opener and limit switch. The process is as follows:

Insert the release key and turn it 90° clockwise, then pull the release handle outwards 90° to disengage the clutch between the gear shaft and motor. Now the opener is in manual operation mode.





# Fit the steel reinforced nylon racks

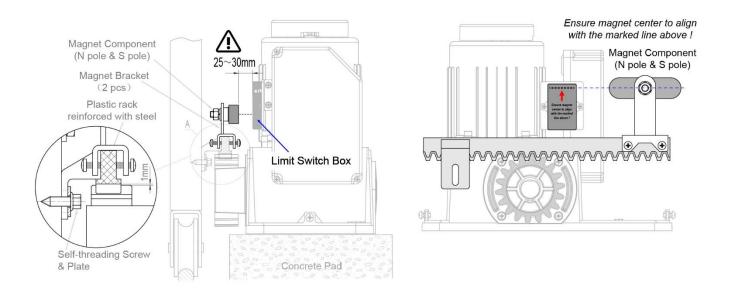
1. Start with gate in closed position

2. There are four nylon racks which are each one meter in length. (You can order extra racks from your dealer if necessary)

3. Place one end of a rack on the gear of the opener as a temporary support.

Make the rack level and mark the mounting holes of the rack on the gate. (four holes for light duty or six holes for heavy duty)

4. Fit the rack by self-threading screws. This kind of nylon rack is quieter and allows height adjustments to be made even after it has been fixed. Please keep 1.0mm space between the rack and the gear to avoid the weight of the gate acting on the opener.



# Installing the magnets

Before installing the magnets, make sure the gate opener is put in manual operation, (the clutch connected with gear shaft is disengaged) and the mains power supply is disconnected for safety.

#### When viewing the gate from inside the property, no matter whether the gate opens to left or right, the N pole magnet needs to be installed on the left side of the gate, and the S pole magnet needs to be installed on the right side of the gate. Ensure magnet center aligns with the marked line above!

#### 1. If the gate opens to the right:

Push the gate to the closed position by hand, place the S magnet bracket assembly on the rack directly opposite the limit switch of the opener (make sure the horizontal distance between the magnet and the limit switch of the opener is 25-30mm), and tighten the fixing screws of the magnet bracket.

Push the gate to the open position by hand, place the N magnet bracket assembly on the rack directly opposite the limit switch of the opener (make sure the horizontal distance between the magnet and the limit switch of the opener is 25-30mm), and tighten the fixing screws of the magnet bracket.

The magnet installation is complete.

#### 2. If the gate opens to the left:

Push the gate to the closed position by hand, place the N magnet bracket assembly on the rack directly opposite the opener limit switch (make sure the horizontal distance between the magnet and the opener limit switch is 25-30mm), and tighten the fixing screws of the magnet bracket.

Push the gate to the open position by hand, place the S magnet bracket assembly on the rack directly opposite the limit switch of the opener (make sure the horizontal distance between the magnet and the limit switch of the opener is 25-30mm), and tighten the fixing screws of the magnet bracket.

The magnet installation is complete.

The magnets should be **25mm to 30mm** away from the **limit switch box**. If they are too near or too far, the switches will not work. Adjust the position of the magnets until the opening and closing positions of the gate meet requirements.

# **Warning:** Improper magnet installation may cause the gate to crash into the end barrier, which is very dangerous!

#### Important:

\* Check that the rack teeth engage the gear teeth throughout their full thickness. If not, adjust the position of the opener or/and place a few shims between the rack and gate.

\* Manually slide the gate leaf to ensure the rack operates properly on the gear of opener.

\* Repeat the same steps as the first rack to install the rest of the racks until proper length is reached.

\* Cut away any rack excess (Note: rack length must be longer than actual travel of the gate)

\* For Model KND800, thoroughly fasten four M8x60 hexagon self-tapping screws, ensuring the opener is firmly secured on the concrete pad during the whole gate travel.

\* For Model KND1600, thoroughly fasten the four nuts as well as spring washers onto anchor bolts tightly, ensuring the opener is firmly secured on the concrete pad during the whole gate travel.

## Connecting the AC mains power supply

**WARNING: NEVER** connect the gate opener to the power outlet before all the installations have been completed.

The power supply cord should be at least  $3 \times 0.75$ mm<sup>2</sup> (3C×18AWG). Connect the live wire and neutral wire to the "L" and "N" terminal of the control board respectively; and connect the earth wire to "PE".

NOTE: The power supply cord is not included in the package.

## Connecting batteries, solar panels and solar controller

NOTE: The batteries (not included in the package) can be used as back-up power or main power. The wiring connections are different for the two conditions.

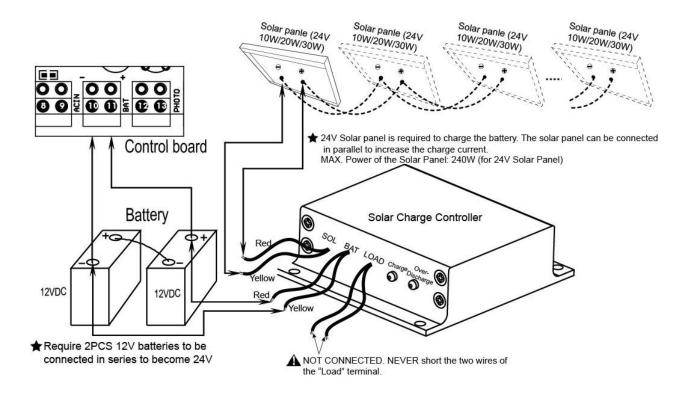
#### 1. Using batteries with AC electricity at the same time

The gate opener can be powered by AC electricity and batteries at the same time. The batteries are used as a backup power source in the event of an AC electricity failure. When the AC electricity is available, the control board of the motor will charge the batteries. The solar panel and solar controller are optional and are used to charge the batteries. In this situation, fully charged 5Ah batteries are enough to allow you to operate the system for 5-20 open and close cycles in 2 days without a solar charging system. Please connect the

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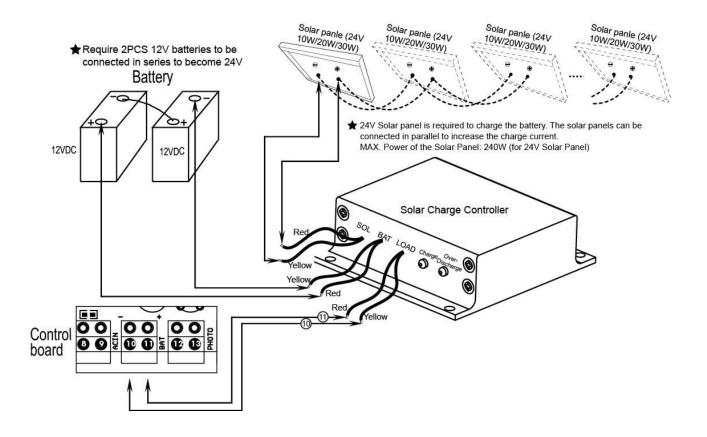


batteries, solar panels, and solar controller by referring to the following illustration.



# 2. Using batteries without AC electricity

The gate opener also can be powered by **2 PCS 12VDC batteries (NOT INCLUDED)** as the main power supply with a 24VDC solar panel to charge it. The capacity of the batteries should be at least 12Ah and the power of the solar panel should be at least 30W if no AC electricity will be supplied. The gate opener can run for 10 cycles per day without connecting any other accessories except pushbutton and alarm lamp if the local average sunshine time is more than 6 hours per day. The power of the solar panel and the capacity of the batteries should be increased if the local average sunshine time is less than 6 hours per day, or using one of the accessories (photocell, external receiver, exit wand or wired keypad). Please provide us with more details of local sunshine conditions and accessory needs, and we can calculate the configuration of the solar panel and batteries. Please connect the batteries, solar panels and solar controller by referring to the following illustration if you want to use the gate opener without any AC electricity.



# Connecting the control board

#### 1. Motor

The **YELLOW** wire of the motor should be connected to the "1" terminal. The **RED** wire of the motor should be connected to the "2" terminal.

#### 2. Limit Switches

The **YELLOW** wire of the limit switches should be connected to the "3" terminal. The **BLACK** wire of the limit switches should be connected to the "4" terminal. The **RED** wire of the limit switches should be connected to the "5" terminal.

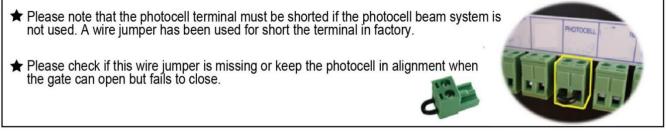
#### 3. Alarm Lamp (24VDC)

The **WHITE** wire of the alarm lamp should be connected to the "6" terminal. The **RED** wire of the alarm lamp should be connected to the "7" terminal.

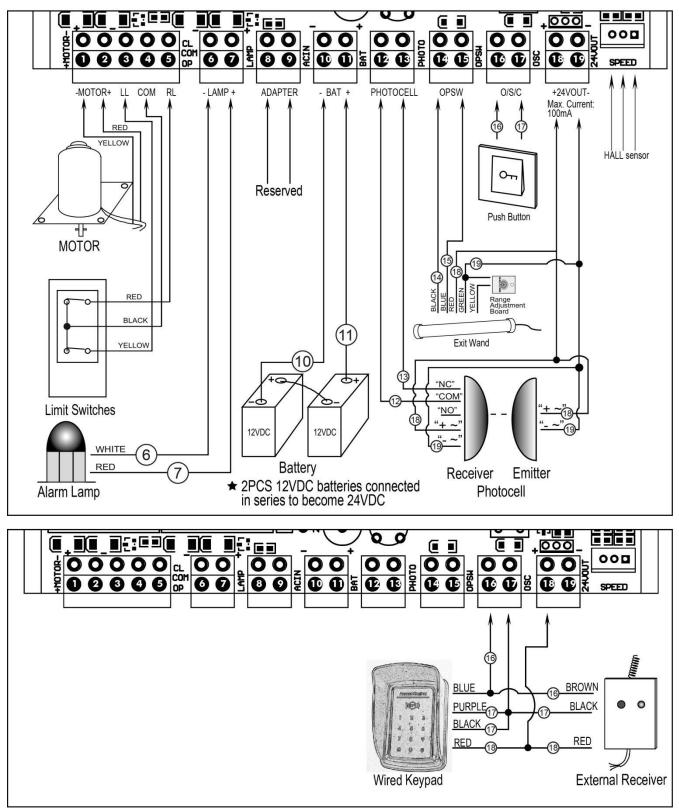
#### 4. Photocell

Use a 2-core cable to connect the "- ~" terminal of the photocell's emitter to the "19" terminal, the "+ ~" terminal to the "18" terminal. Also the "- ~" and "+ ~" terminals of the photocell's receiver should be connected to the "19" and "18" terminals in parallel.

Use another 2-core cable to connect the "NC" terminal of the receiver to the "13" terminal, the "COM"



terminal to the "12" terminal.



#### 5. Push Button

The push button should be wired to the "16 and "17" terminals. The polarity does not matter. If the button is pressed repeatedly, the opener will work in the following sequence (open-stop-close-stop-open).

#### 6. Exit Wand (optional)

The **BLACK** wire of the exit wand should be connected to the "14" terminal.

The **BLUE** wire of the exit wand should be connected to the "15" terminal.

The **RED** wire of the exit wand should be connected to the "18" terminal.

The **GREEN** wire of the exit wand should be connected to the "19" terminal.

The sensitivity adjustment board should be wired to the **GREEN** wire and the **YELLOW** wire of the wand. The polarity does not matter.

#### 7. Battery

The "24V+" of the battery should be wired to the **BAT+** "11" terminal, "24V-" should be wired to the "-**BAT**" "10" terminal. If the battery is being used with solar panel, please connect the batteries, solar panel and solar controller by referring to the chapter "Connecting batteries, solar panels and solar controller".

#### 8. External Receiver

The **BROWN** wire of the external receiver should be connected to the "16" terminal.

The **BLACK** wire of the external receiver should be connected to the "17" terminal.

The RED wire of the external receiver should be connected to the "18" terminal.

#### 9. Wired Keypad (24VDC)

The **RED** wire of the wired keypad should be connected to the "18" terminal.

The **BLACK** wire of the wired keypad should be connected to the "17" terminal.

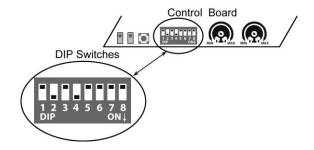
The **BLUE** wire of the wired keypad should be connected to the "16" terminal.

The **PURPLE** wire of the wired keypad should be connected to the "17" terminal.

NOTE: If the batteries and solar panel is used as the main power supply, using a photocell, exit wand, wired keypad or external receiver would quickly exhaust the batteries. Bigger capacity batteries and solar panels are required if you want to use any one of them.

# Setting the control board

WARNING: Ensure the gate opener is Powered Off when you make any adjustment to the gate opener. Keep away from the path of the gate while setting the gate opener system in case of unexpected gate movement. Carefully adjust the DIP switches to avoid the risk of machine damage and injury or death. Always ask the help of professional technician /electrician if you have any questions.



#### 1. DIP Switches

The DIP switches are used to set the running time of the

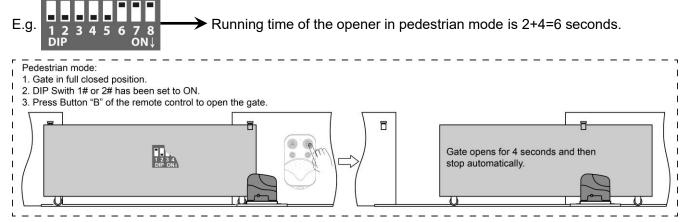
motor in pedestrian mode, make fine adjustments to the soft stop period of the motor, set auto close time of the gate opener and set the open/close direction depending on the installed position of the gate opener.

#### DIP Switch #1-#2: Running time of the motor in Pedestrian Mode

DIP Switch #1: ON -2 Seconds OFF -0

#### DIP Switch #2: ON -4 Seconds OFF -0

NOTE: The pedestrian mode function would be disabled if both DIP switches are turned off. Factory default setting is disabled. The pedestrian mode could be activated by pressing button B of the remote control when the gate is in the fully closed position.



DIP Switch #3-#5: Fine adjustment of the soft stop period of the motor

DIP Switch #3: ON – 1 Second OFF – 0

**DIP Switch #4: ON** - 2 Seconds **OFF** - 0

**DIP Switch #5: ON** - 3 Seconds **OFF** - 0

NOTE: Every time you restart the gate opener after power off, you should use the access control device (such as remote, push button etc.) to operate the gate opener to run for a complete opening cycle and a complete closing cycle to get the full opening time and the full closing time. You would achieve the soft stop in your next opening/closing cycle. Factory default soft stop time is 3 seconds. You can turn the DIP switches on/off to fine adjust the soft stop time to meet your actual needs.

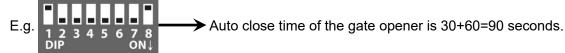


DIP Switch #6–#7: Auto close time of the gate opener

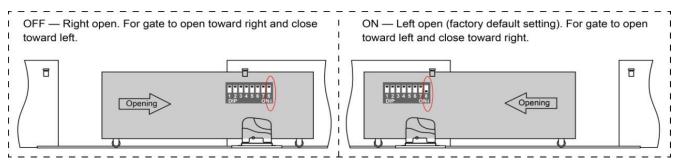
DIP Switch #6: ON -30 Seconds OFF -0

DIP Switch #7: ON - 60 Seconds OFF - 0

NOTE: The auto close function would be disabled if both DIP switches are turned to off (factory default setting).



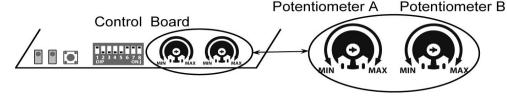
#### DIP Switch #8: Left/Right open



#### 2. Potentiometers

**Potentiometer A** is used to adjust the close stall force for the gate opener. Turn clockwise to increase the stall force, and turn it counter-clockwise to decrease the stall force.

**Potentiometer B** is used to adjust the open stall force for the gate opener. Turn clockwise to increase the stall force, and turn it counter-clockwise to decrease the stall force.



# Testing the reversing sensitivity

For the sake of safety, it is very important to test the reversing sensitivity as soon as the control board set is finished.

The reversing sensitivity adjustment is inversely correlated with the stall force adjustment in potentiometer A and B. In other words, the stall force level is higher when the reversing sensitivity level is lower.

Put an immobile object along the gate path, and then operate the gate to strike it during the close cycles. The gate must reverse as soon as it hits the object. If the gate doesn't reverse, please increase the reversing sensitivity by turning the potentiometer in counter-clockwise direction. (Turning the stall force potentiometer toward MIN position to increase the reversing sensitivity)

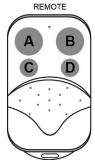
Note 1: If the sensitivity setting is too high, the gate will stop or reverses very easily by itself while there is little obstruction or resistance such as strong wind or heavy snow.

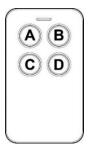
Note 2: Always check the gate reversing function each time the control board is set or when restarting after power off.

# Pairing or clearing remote controls

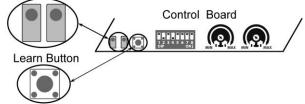
#### **Pairing Remote Controls**

While the power is on, and the motor cover is removed, press the '**LEARN**' button on the control board, until the '**REM**' LED turns on, then release the button. While the LED is on, press the first button on the remote control twice in 2 seconds, the LED will flash repeatedly and then turn off when remote control is paired. Up to **10** remote controls can be paired.





# REM LED PWR LED



#### Pairing Remote Controls with the External receiver

Currently, an external receiver is provided with the opener to avoid signal interference from the nearby environment. It is strongly recommended that you pair all remotes and wireless devices to the opener through this external receiver.

While the power is on, and the motor cover is removed, press the '**LEARN**' button on the external receiver, until the '**REM**' LED turns on, then release the button. While the LED is on, press the first button on the remote control twice in 2 seconds,

Antenna

the LED will flash repeatedly and then turn off when remote control is paired. Up to **200** remote controls can be paired.

# Controlling the opener with the remote

- Press **button A** repeatedly to cycle the opener through the following sequence: (open-stop-close-stop-open).
- When the **Pedestrian Mode** function is enabled, **button B** is used to operate the opener on **Pedestrian Mode** (open the gate for the pre-set time). When the **Pedestrian Mode** function is disabled, **button B** has the same function as **button A**.
- Button C and button D are reserved for operating a garage door opener, and swing gate opener in our product range. If you want to use button C and/or button D to control a second sliding gate opener, an external receiver (optional) is necessary.

# Troubleshooting

Have a multi-meter to check voltage and continuity. Use caution and only allow qualified people to check terminals or carry out electrical work.

Symptom	Possible Solution(s)
	<ol> <li>Make sure that the power cord is properly plugged into the mains outlet.</li> <li>Check if the output voltage of the transformer is 24VAC. If the voltage measures 0, the transformer may be overheated or damaged. Turn power off</li> </ol>
	and allow board to cool for several minutes then reset. Replace the transformer if this problem still exists.
The opener does not run. Power LED is	3. Check the fuse in the control board. Replace the fuse if it has blown.
OFF.	4. Check the status of the over-discharged LED on the solar controller. If this LED is on, the voltage of the batteries is too low to power the gate opener. Please wait until the batteries are fully charged.
	5. If the over-discharged LED is ON when the voltage of the batteries is normal (>24VDC), the solar controller may be faulty.
	6. Check the control board. Replace the control board if necessary.
The opener does not run. Power LED is ON.	1. If a photocell is used as a secondary entrapment prevention device, check that the beam is not blocked. If a photocell is not in use, the photocell terminal of the control board should be shorted by a jumper wire.
	2. Check the motor. Release the clutch then disconnect the wires of the motor

	from terminal 1 and 2. Connect the wires to 24V battery directly, the motor should run. Swap the wires, and the motor should run in the opposite direction. If the motor runs in both directions, please check the other parts listed below.
	3. Check the limit switch. Use a jumper wire to short terminal 4 with terminal 3 and 5, then use a remote control to operate the opener. Replace the limit switch if the motor is able to run in both directions.
	4. Check the control board. Replace the control board if necessary.
	1. If the indicator light of the remote control is not on, check the battery in your remote control. Replace the battery if necessary.
	2. You may be using the remote control too far away from the opener. Move closer and try again.
Remote control does not work.	3. Ensure that you are using the correct remote control supplied for use with this opener, and that you have paired the remote control with the control board. Refer to "Pairing or clearing remote controls" in this manual.
	4. Check whether you have already paired more than 10 remote controls with the control board. If you would like to use more than 10 remote controls, you need use an external receiver with the control board.
	5. Check the control board. Replace the control board if necessary.
	1. Check the HALL sensor board inside the gear box has been connected to the control board securely.
	2. Check that the clutch is adjusted properly and is not slipping.
The gate starts but it immediately stops or reverses	3. The opening force or closing force is set too low. Turn the A & B potentiometers to increase the force. Refer to "2. Potentiometers" in "Setting the control board".
	4. Disconnect the gate from the gate opener and check that the gate slides freely without any binding.
	5. Check the control board. Replace the control board if necessary.
The gate opens but stops and will not return.	1. Please note the two limit magnets are different: one is N pole and the other is S pole. Please try exchanging the two magnets.
	2. Please try exchanging the limit switch wires CL (close) and OP (open).
	3. The magnets are possibly installed in the wrong positions, so may not be tripping a switch, may trip the wrong switch, or even both. Adjust the magnet positions referring to "Installing the magnets".

	4. Check the control board. Replace the control board if necessary.
	1. If using a photocell, there may be an obstruction or dirt. Clear the photocell and try again.
The gate can open, but fails to close.	2. The limit switch may have failed. Use a jumper wire to short terminal 4 with terminal 3 and 5, and then use a remote control to operate the opener. Replace the limit switch if the motor is able to run in both directions.
	3. Check the control board. Replace the control board if necessary.

#### Maintenance

Every six months check the following items for proper operation of the unit.

- \* Lubricate shafts and gears.
- \* Keep opener clean at all times.
- \* Check and tighten anchor bolts.
- \* Check for loose or corroded wire
- \* Ensure the opener is well earthed, and correctly terminated.

\* Check the opener stops and reverses the gate when encountering an obstruction and ensure this is tested each time maintenance is carried out. If this function can't be made operable, remove this opener from service until the cause of the malfunction is identified and corrected.



According to Waste of Electrical and Electronic Equipment (WEEE) directive, WEEE should be separately collected and treated. If at any time in future you need to dispose of this product please do NOT dispose of this product with household waste. Please send this product to WEEE collecting points where available.

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