RICHMOND®
WHEEL & CASTOR CO

Wireless Keypad

Model: GTR120

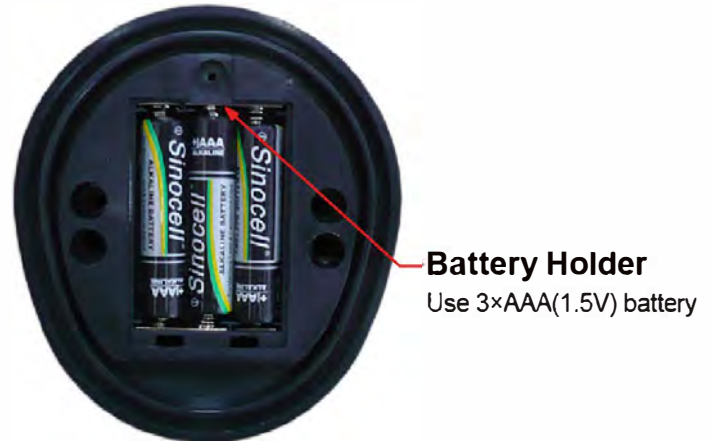## Programming and Operating Instruction Manual

NOTE: Please read this manual carefully before install and use.

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Introduction

Thank you for purchasing the Wireless Keypad GTR120. This wireless keypad will help you provide easy and secure access to any persons you trust, without having to program a lot of remotes. Be sure to read the manual carefully and completely before permanently mounting the keypad, please program the keypad and test its range before finalising installation. The keypad has an integrated LED backlit key feature for use in the dark or at night.

Keypad Description

LED backlit keys

Battery Holder
Use 3×AAA(1.5V) battery

NOTE: 3×AAA(1.5V) battery are required to power the keypad
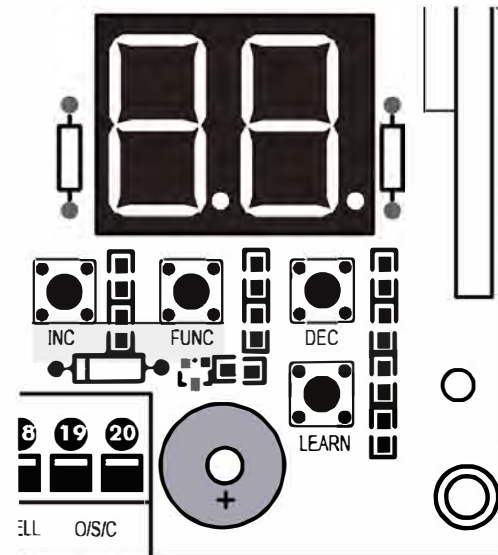
Use For Swing Gate Opener

"Learn" Transmitter code

Make sure the control board of the opener is powered on and in standby mode (LED flashes"⬛⬛"("--")).

Step 1. Press and release"LEARN" button and then LED will

display" ⬛⬛ "("Ln").

Step 2. Press the "OK" button on the GTR120 Keypad once to learn the keypad. Once the keypad has been learnt successfully, LED of the control board will flash " ⬛⬛ "("Ln") for 2 seconds and then flash " ⬛⬛ " ("- -") again.

Now you can use the factory default password "888888" to operate the gate opener (Refer to your **SWING GATE OPENER** manual).

Control Board of Swing Gate Opener

NOTE: Once LED displays " ⬛⬛ "("Ln"), you must press the "OK" button on the wireless keypad within 1-2 seconds to learn the transmitter code, or you may have to start over.

How to Operate Swing Gate Opener with the Keypad

Once the keypad GTR120 has been learnt successfully, you can use default code to operate the gate.

1. When the gate is in an open or closed positon and the opener is in standby mode, you can make it move using the keypad via the following steps:

Step 1. Press and release "PIN" button on the keypad GTR120 and then enter the 6 digit entry code.(factory default code is "888888")

Step 2. Press the "OK" button within 1 second after step 1 to move the gate.

2. You can press the "OK" button at anytime to stop the moving gate.(Entry code is not needed).

NOTE: The keypad GTR120 will beep at the press of any key. When you enter the entry code, each button should be pressed within 1 second. If an error has occurred, the beep will sound for 2 seconds before returning to normal operation. Please try again.

NOTE: If the Keypad GTR120 is installed outside of the gate to open the gate, and no Keypad is installed inside of the gate, we strongly recommend you set the auto-close function on the circuit board in the control box. Refer to your gate opener manual for instructions on how to do this.

Programming a new entry code

For security, you should change the old/factory default entry code to something new code. The keypad must be paired successfully with the control board of the swing gate opener before you try to change the entry code.

Make sure the control board of the opener is power on and in standby mode (LED flashes " ▮.▮. ""(- -)").

Step 1. Press and release "PIN" button on the keypad GTR120 and then enter the 6 digits default/old entry code. (factory default entry code is "888888")

Step 2. Press and release "PIN" button on the keypad GTR120, "▐H"("CH") will display on the LED of the control board.

Step 3. Enter your new 6 digit new entry code and press "PIN" button to store it. The entry code should now be updated successfully while "▐H"("CH") flashes for 2 seconds on LED of the control board.

NOTE: Every step for pressing button during program must be finished within 1 second to ensure that the keypad is successfully programmed.

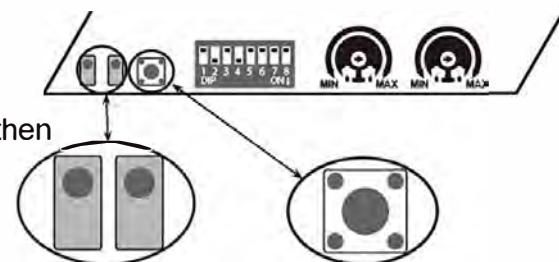# Use For Sliding Gate Opener

"Learn" Transmitter code

Make sure the control board of opener is power on and in standby mode (PWR LED is on and REM LED is off, gate is stop).

Step 1. Press and release "Learn" button of the control board, and then REM LED will be on.

Step 2. Press the "OK" button once on the keypad GTR120 to learn the transimitter code. If the keypad has been learnt successfully, the REM LED will flash for 2 seconds and then back to off. Now you can use the factory defaut code to operate the gate (Refer to the "how to operate Sliding Gate" section of the manual).

NOTE: The "OK" button should be pressed within 1 second after step 1, or you may have to start over.

Control Board of Sliding Gate Opener

REM LED   PWR LED   Learn Button

How to Operate a Sliding Gate Opener with the Keypad

Once the keypad has been learnt successfully, you can use the default code to operate the gate.

1. When the gate stops in some positon and the operator is in standby mode, you can make it move via the following steps:

Step 1. Press and release "PIN" button on the wireless keypad and then enter the 6 digits entry code.(the factory default entry code is "888888")

Step 2. Press the "OK" button within 1 second after step 1 to move the gate.

2. You can press the "OK" button at anytime to stop the moving gate(Entry code is not needed).

NOTE: The GTR120 keypad will beep at the press of any key. When you enter the entry code, each button should be pressed within 1 second. If an error has occurred, the beep will sound for 2 seconds before returning to normal operation. Please try again.

NOTE: If the Keypad GTR120 is installed outside of the gate to open the gate, and no Keypad is installed inside of the gate, we strongly recommend you set the auto-close function in circuit board in control box. Refer to the manual for your gate opener for more information.

Programming a new entry code

For security, you should change the old/factory default entry code to a new code of your choice, but the keypad must first be paired/programmed successfully with the control board of sliding gate motor before you try to change the entry code.

Make sure the control board of opener is powered on and in standby mode (PWR LED is on and REM LED is off, gate is stop).

Step 1. Press and release "PIN" button on the keypad GTR120 and then enter the 6 digits default or old entry code. (factory default entry code is "888888")

Step 2. Press and release "PIN" button on the keypad GTR120, REM LED of the control board is ON waiting for user to input the new entry code.

Step 3. Enter your desired new 6 digit code and press "PIN" button to store it. The entry code should now be updated while the REM LED flashed for 2 seconds on control board.

NOTE: Every step for pressing buttons during programming must be finished within 1 second to ensure that the keypad is successfully programmed.

How to change the battery of the Keypad

Step 1: Remove the black cover with flathead screwdriver, there you will find 2 screws.
Step 2: Remove the front panel with screwdriver, uncover the battery holder and replace the battery.
Step 3: Restore the back cover and front cover with a phillips head screwdriver.
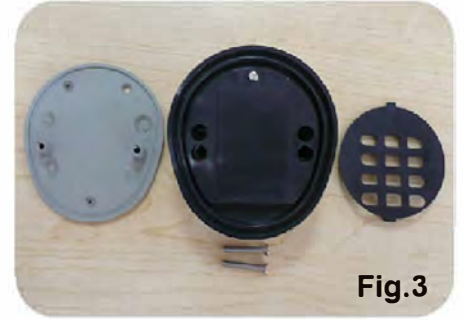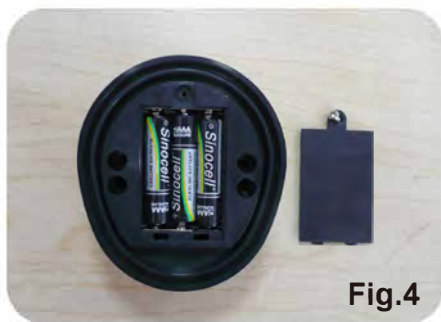Ref to the Figure 1~6.

Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

Fig.6

suggested mounting position

The wireless keypad GTR120 should be installed outside of the property (Pull to Open) and on the same side of the driveway where the control box is installed. The distance between the keypad and control box should not exceed 5 meters.

If the keypad is installed on the opposite side of the driveway, the keypad operation maybe interfered by the electromagnetic waves from a passing vehicle.
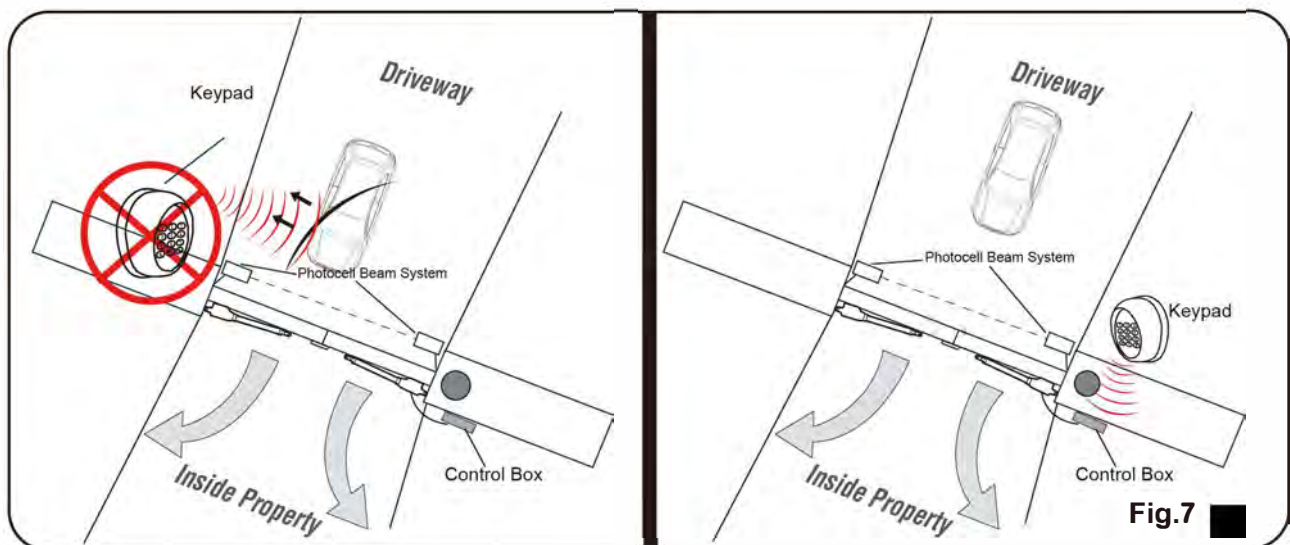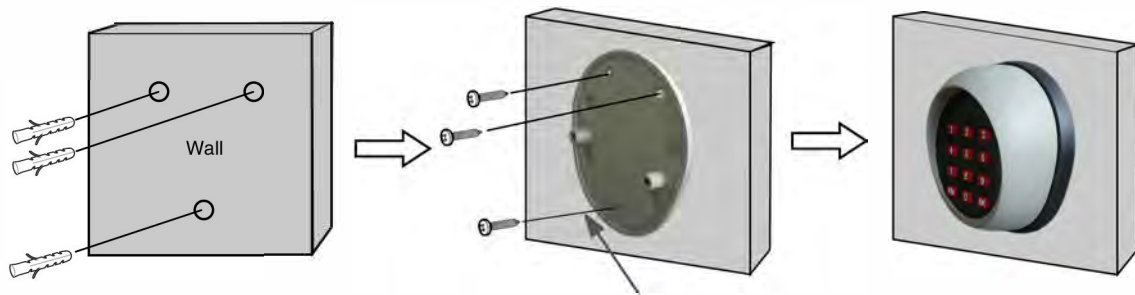Refer to the Fig.7.

Fig.7

NOTE: We suggest you use a wired keypad in place of the wireless keypad for installations in locations where the frequency interference is restricted, nearby airports for-example or if the control box is installed far way from the gate operator (more than 30' or 10 meters).

Installation of the keypad

Note: The mounting holes of the keypad have not been poked through you should use a tool with sharp head to punch/poke them. Mount the keypad by following the below figure.

Wall

punch/drill/poke through the mounting holes before you install the keypad

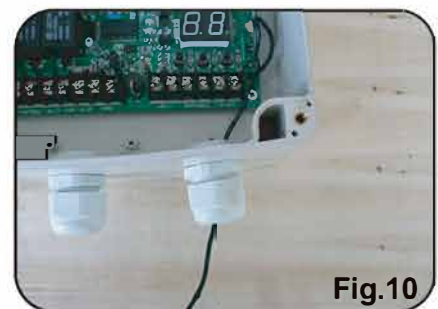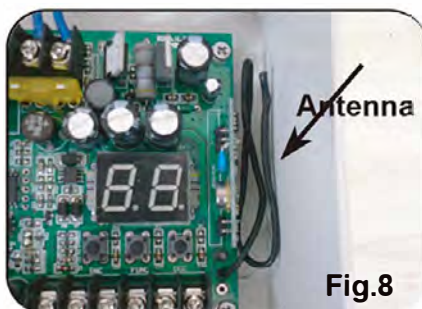# How to increase the control distance of keypad

The standard range of the Keypad is 5~10 meters. If you find that the Keypad is not sensitive enough in on-site installation, we suggest you enhance the remote range by following the below method.

Step 1: Open the gate motor control box, the black colour antenna can be found in the side of PCB.

Step 2: Draw the antenna straight and pull it through the cable hole in the bottom of the control box. Ref to the figure 8, 9 and 10.

Antenna

Fig.8 **Fig.9** **Fig.10**

Trouble Shooting

1. The keypad fails to learn the transmitter code.
a. Check if the battery is exhausted.
b. Re-learn the keypad near the control board.
c. Once the control board is ready to learn the keypad, press the "OK" button within 1 second.

2. The keypad fails to operate/open the gate.
a. Check if the battery is exhausted.
b. The keypad may be too far from the control box. Check if the distance is too far to use the keypad (Refer to the "How to increase the control distance of keypad" section of the manual).

3. If you have forgotten your entry code or wish to reset it
Refer to the "Learn the transmitter code" section of the manual for your gate opener. Following these instructions will reset the code to the factory default "888888"