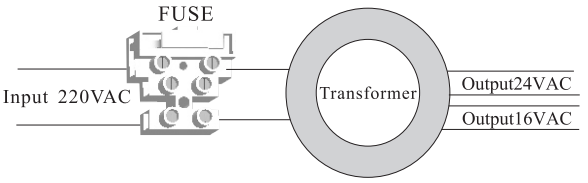
Swing Gate Operator
MANUAL

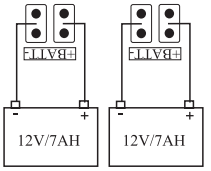
PKD2.3K

PLEASE READ THE MANUAL CAREFULLY
BEFORE INSTALL AND USE

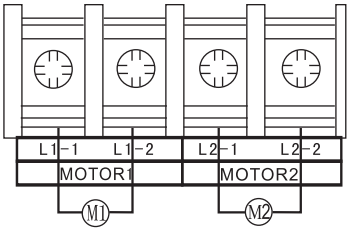
4.1.1 Connecting power



4.1.2 Connecting Battery



4.2 Connecting Motors



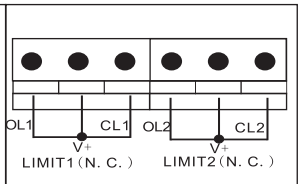
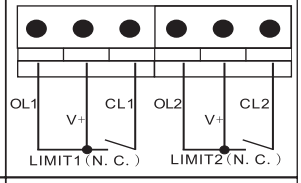
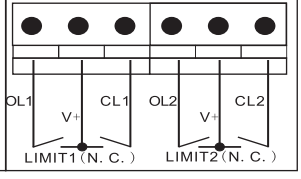
4.2.1 Connecting motor for single-leaf gate:

If the gate is 1 leaf, first, it must be connected with "Motor1",and the "dip2" on "S4"must be "OFF".

4.2.2 Connecting motors for double-leaf gate:

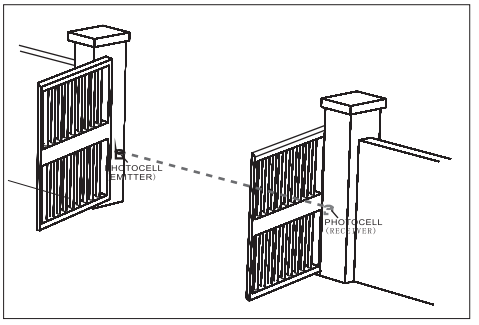
If the gate is 2 leaves, the priority opening leaf must be connected with "MOTOR1",the other one is connected with "MOTOR2",And the "dip2" on "S4" must be "ON". See "Parameter setting ".

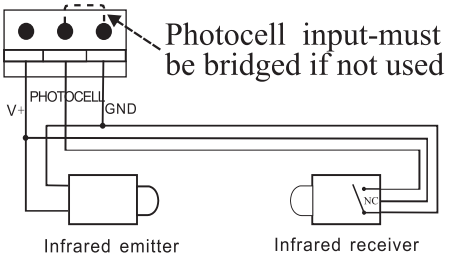
4.3 Connecting Magnetic limit switch

If no limit switch, the terminals must be short connected	
For only closing limit switch	
For openning and closing limit switch	

Opening limit OL1, OL2: Yellow wire
Concentration V+: Red wire
Closing limit CL1, CL2: Black wire

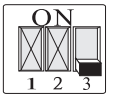
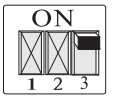
4.4 Connecting Photocell





5.Definition of Dip-switch and Button

5.1 Dip-switch

	Automatic closing function is canceled		For Double-leaf gate
	Automatic closing function is available.		E-LOCK funtion is canceled .
	For Single-leaf gate		E-LOCK funtion is available.

5.2 Button

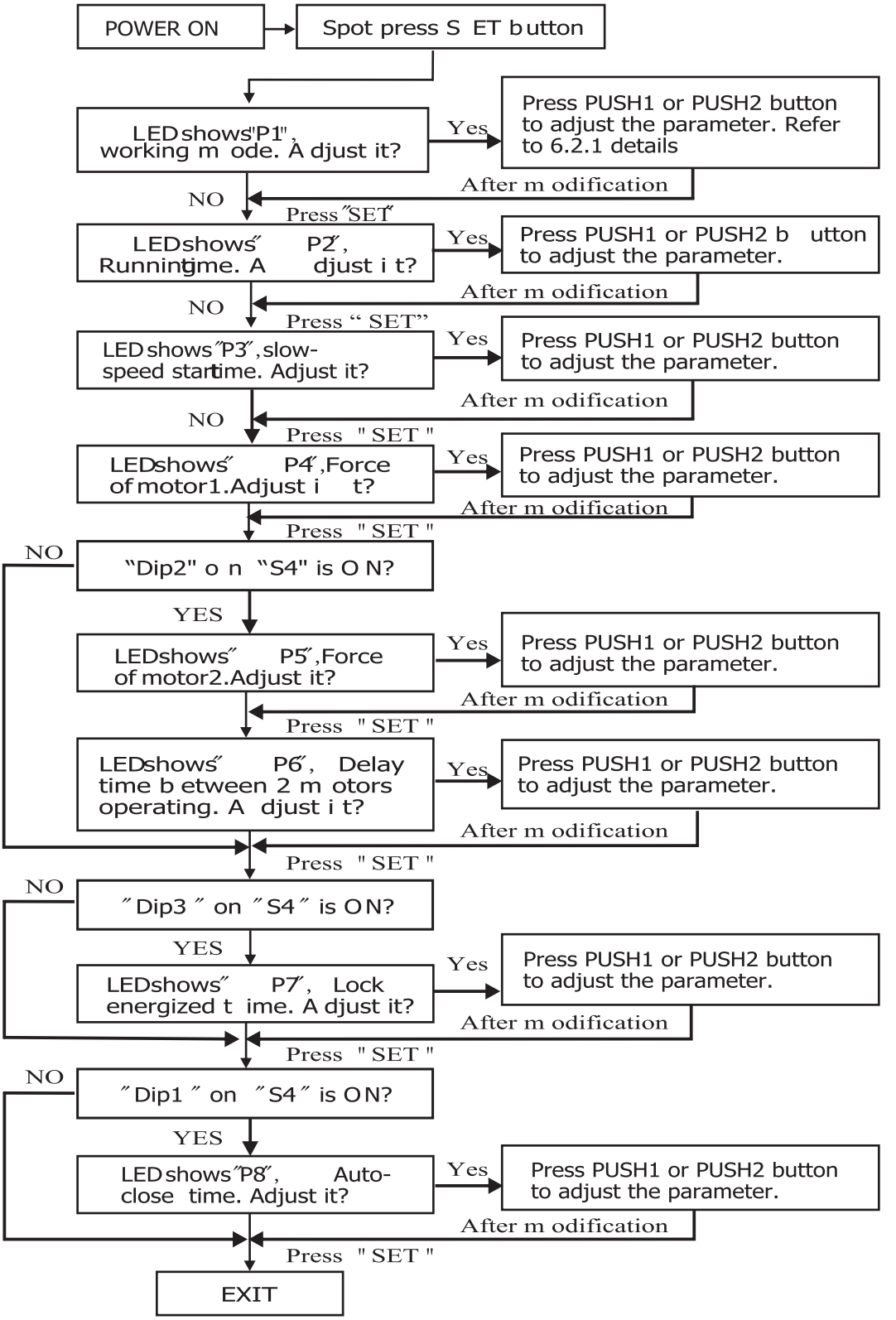
LEARN	Coding/Earsing transmitter codes	PUSH1	Operating double-leaves with "step-by-step"or Increasing number displayed on LED.
SET	Choosing program process	PUSH2	Operating single-leaf with "step-by-step" or decreasing the number displayed on LED.

6.Programming:

6.1 Definition of parameters

P1: Working mode
P2: Running time
P3: Slow-down starting time
P4: Force of Motor 1
P5: Force of Motor 2
P6: Delay time between the Leading leaf and the slave leaf's act
P7: E-Lock energized time
P8: Auto-closing time

6.2 Setting Parameters :



6.2.1 Decryption of P1 Details :

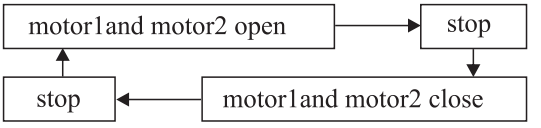
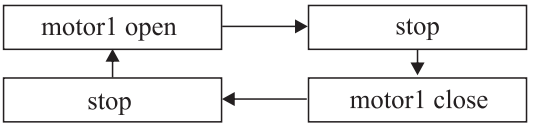
◎Spot press the **SET** button, the buzzer "Bi, Bi ",LED shows "**P1**".

◎Parameter 1: Working mode. There are six kinds of working modes. from "00" to "05", It is "00" in factory.

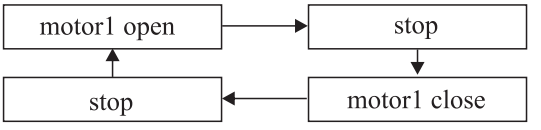
● **" 00":Normal working mode.**

When the gate hits an obstacle, the gate opener stops.

◎If the gate is double leaf:

"PUSH1"button or **Master** button on transmitter.	
"PUSH2" button or **Slave** button on transmitter.	

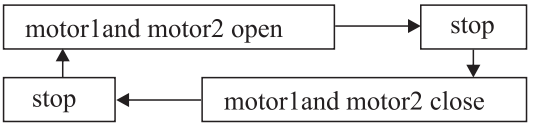
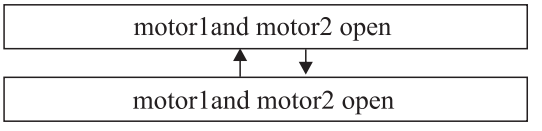
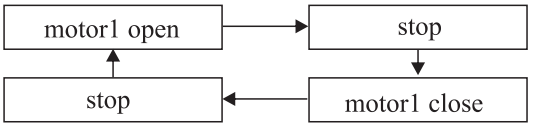
◎If the gate is single leaf :

"PUSH1"button or **Master** button on transmitter.	
"PUSH2 " button or **Slave** button on transmitter	disable

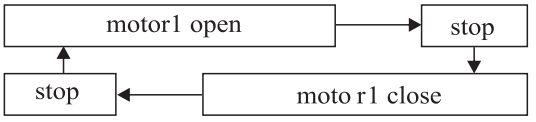
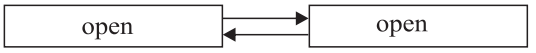
● **"01":Access Control System working mode.**

When the gate hits an obstacle, the gate opener stop.

◎If the gate is double leaves:

"PUSH1" button or **Master** button on transmitter	
"PUSH2" button	
Slave button on transmitter	

◎If the gate is single leaf:

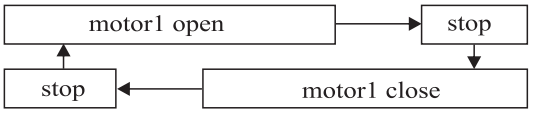
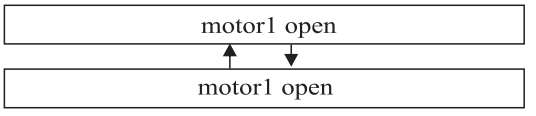
"PUSH1"button or **Master** button on transmitter.	
"PUSH2" button	
The **Slave** button on transmitter	d isable

● **"02":Many vehicles on queue working mode.**

When the gate hits an obstacle, the gate opener stop.

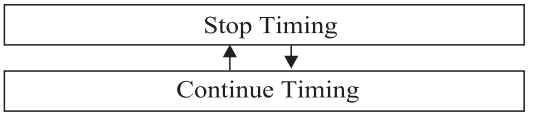
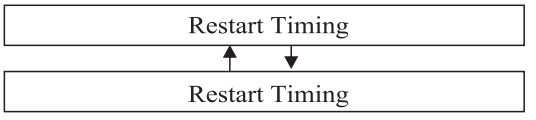
◎If the gate is single leaf:

→" Dip1"on "S4"of the board is OFF (no auto-closing function).

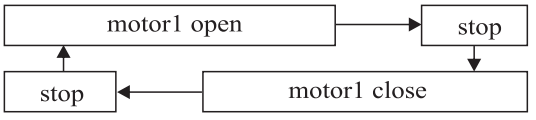
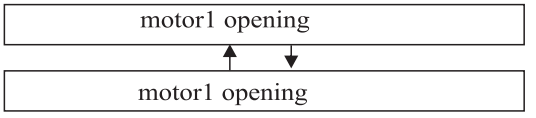
"PUSH1"button or Master button on transmitter	
"PUSH2"button:	
Slave button on transmitter	d isable.

→"Dip1"on "S4"of the board is ON (auto-closing function).

◎If the gate is at open position

"PUSH1"button and **Master** button on transmitter	
"PUSH2"button	
Slave button on transmitter	d isable

◎If the gate is at other position

"PUSH1"button and **Master** button on transmitter	
"PUSH2"button	
Slave button on transmitter	d isable.

◎If the gate is double-leaves

→"Dip1"on "S4"of the board is OFF (no auto-closing functon).

"PUSH1" button and**Master** button on transmitter	motor1 and motor2 open stop stop motor1and motor2 close
"PUSH2" button	motor1and motor2 open motor1and motor2 open
Slave button on transmitter	motor1 open → stop stop ← motor1 open

→The "dip1"on the "S4"on the board is ON:

◎If the gate is at open position (auto-closing function).

"PUSH1"button and**Master** button on transmitter	Stop Timing Continue Timing
"PUSH2" button	Restart Timing Restart Timing
The **Slave** button on transmitter	motor1 open → stop stop ← motor1 close

◎If the gate is at other position

"PUSH1" button and**Master** button on transmitter	motor1 and motor2 open stop stop motor1and motor2 close
"PUSH2" button	motor1and motor2 open motor1and motor2 open
Slave button on transmitter	motor1 open → stop stop ← motor1 open

● **"03":Base on "00" the Normal working mode:**

While opening, the gate opener stops when it hits an obstacle.
While closing, the gate opener reverses when it hits an obstacle.

● **"04":Base on "01" Access Control System working mode:**

While opening, the gate opener stops when it hits an obstacle.
While closing, the gate opener should reverses when it hits an obstacle.

● **"05":Base on "02" the Many Vehicles on queue working mode:**

While opening the door, the gate opener stop when it hits an obstacle.
While closing the door, the gate opener should reverse direction when it hits an obstacle.

7. Coding transmitter

7.1 Coding Master transmitter

Press " LEARN " button on control board three times shortly, " LEARN LED " flashes three times and lights on, and the BUZZER "Bi",then press a button or two buttons which are selected on the transmitter and hold on till the “LEARN LED”flashes and lights off, and the BUZZER "Bi..." continuously. Now, this transmitter is the Mother Transmitter. Note: We suggest to choose the one or two buttons which are seldom to be used on the transmitter as the Mother button .

■ **Now, you have two ways to set up transmitter’s codes.**

7.1.1 Transmitter’s coding by “LEARN” button on Control Board

◎Learning a Master button on transmitter for Full opening operation:
Shortly press “LEARN”button on Control board, “LEARN LED” lights on, then press and hold on the required button on transmitter till the“LEARN LED” flashes and goes out.
◎Learning a Slave button on transmitter for pedestrian operation:
Shortly press “LEARN”button twice on Control Board, “LEARN LED” flashes twice and lights on, then press another required button on transmitter till “LEARN LED” flashes and goes out.

■ This way, more transmitters can be learned.

7.1.2 Transmitter’s coding by a Mother transmitter

◎Learning a Master button on transmitter for Full opening operation:
Press and hold the Mother button till the buzzer”Bi...” continually, then press and hold the required button till the buzzer “Bi, Bi”.
◎Learning a Slave button on transmitter for Pedestrian Operation Press and hold the Mother button till the buzzer starts a long “Bi...”and two short “Bi ,Bi”, then press and hold the other required button till the buzzer “Bi, Bi”.

7.2 Erasing transmitter's code

Erasing transmitter codes: Press"LEARN BUTTON"and hold on to make the"LEARN LED"light till go out, all codes have been erased.

8.Meaning of display:

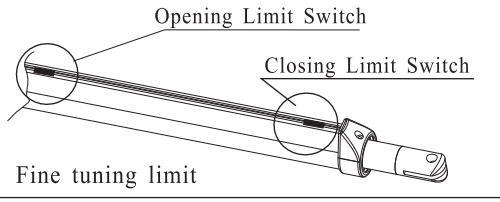
00	Normal display
EL	ELECTRIC-LOCKWorking
OP	Opening
CL	Closing
L1	Open limit of Motor1 broken
L2	Close limit of Motor1 broken
L3	Open limit of Motor2 broken
L4	Close limit of Motor2 broken
PH	1.Photocell is not connected properly. 2.Photocell team is block off. 3.Photocell is broken.

AU	Auto-close timing
P1	Workingmode
P2	Runningtime
P3	Slow speed start time
P4	Force of motor 1
P5	Force of motor 2
P6	Delay time between 2 motors operating
P7	Lock energized time
P8	Auto-close time

9.Adjust the Limit Switch

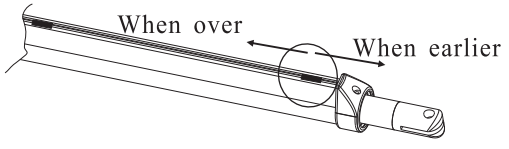
The Sensor Switch for Limit

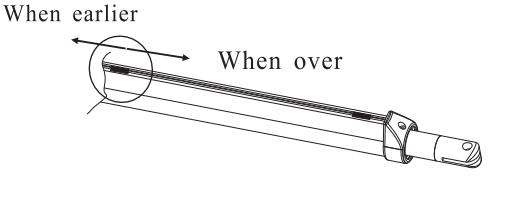
See the right picture, there are two sensors inside the trough, one is for Opening limit, the other is for Closing limit. The sensors can e glide.



Adjust the Closing Limit

See the right picture, if the Closing limit time is earlier than needed, the Closing limit sensor should be glide to right a modicum, if the Closing limit sensor should be glided to left a modicum.



Adjust the Opening Limit

See the right picture, if the Opening limit time is earlier than needed, the Opening imit sensor should be glided to left a modicum, if the Opening limit time is over than needed, the Opening limit sensor should be glided to right a modicum.