vantage®
keeping you safe™

Ultrafast Boom Barrier

User Manual

Contents

1. Warning

Please read user manual before barrier gate installation, including safety, installation, usage, maintenance information.

For convenient reading, user manual keep the contents and installation steps in the same order. Any operation is not allowed without instruction. Wrong use may damage the product, even hurt people and property.

Please keep user manual properly for later use.

Consideringthe possible danger of **Barrier Gate** in installation and use, when installation, please observe the current standards and regulations strictly. In particular:

- Before installation, check whether additional equipments or materials are needed in order to meet the specific needs.
- Please do not alter any parts except for those with instruction. Parts may make damages without instruction. Defuwei do not undertake any responsibility.
- Do not immerse **Barrier Gate** into water or other liquid. When installation, please make sure that no liquid leaks into controller or other opening equipment.
- Keep **Barrier Gate** away fromheat source and open fire. Otherwise it may damage the components and cause failure, and even a fire or other dangers.
- When do not use in a long term, please disconnect the power source of **Barrier Gate**
- Controller of the power source must connect ground safety.
- Firstly disconnect the power source before operating brake machine.
- If switch trip or blowout, please check first and remove trouble and then turn on the switch or replace the fuse.
- For the barrier rod with anti-collision rod off unit, fender pile should be set up in the front of brake machine 1 meters (barrier roddirection) and roughly 50 centimeters taller than brake machine.Barrier rodwill be controlled in the range of 90 degrees in vertical and horizontal direction.Do not allow pedestrians to stand and items placed in order to preventinjuring people or objects in an event of vehicle collision.
- Please be sure to abide by these chapters of warning

If this manual cannot solve fault occurred, please contact our customer service department. This manual is suitable for TAB series, DAB series, MINI-H and Guard-H.

2. Product Introduction:

2.1 Main Function

- A key automatic learning function can automatically adapt to a different machine and different load.
- Optional vehiclesensorwith “automatic rod drop”, “smashing car protection” and “continuous car release” function.
- Remote controlleris equipped with a manual/automatic switch and operation buttons. TAB series of high speed is only equipped with “up” and “down” buttons. DAB seriesand MINI/GuardH are equipped with “up”, “down” and “stop” three buttons.
- Optional wireless remote controller, realize flexiblycontrolling in along distance.
- Can be connected with infrared correlation or pressure wave car smashing protected devices. In order to increase the car smashing protected performance.
- Optional RS485 or RS232 serial communication interface, simple and reliable communication protocol. Can easily realize the **Barrier Gate** remote control and state feedback.
- By dip-switch settings, a variety of operating mode and parameters are provided for the user to select, and maximize to meet the users’ needs of different functions.

Special Function of High Speed Barrier Gate：

- **Automaticallyobstacle detection function:**In the process of falling or elevating, barrier rodwill rise or stop and unlock immediatelywhen detecting obstacles. It prevents accidents to the largest extent. 4 levels can be adjustable to detect obstacle sensitivity by dip-switch.
- **Automatically outage unlock function:**When working normally with power-on, brake machine will lock barrier rodto prevent accidents or artificial rod lift in a vertical or horizontal state.When outage,barrier rodwill be unlocked automatically and be lifted up by hand.
- **Barrier rod anti-collision mechanism function:** minimize the collision damage of vehicle to the barrier rod

2.2 Electrical Feature

- high integrated system, powerful function
- anti-interference combination of hardware radar detector and software, no MCU/SCM crash
- photoelectric sensor test, non-contact, no attrition and deviation
- isolated heavy current and week current, photoelectric coupling motor control, zero conduction technology, master control board working without spark and interference
- electrical isolation of input and output signal, ensure system safety and reliability
- advanced motor with thermal protection function, automatically cut off power supply over 145℃ , not burn easily
- motor with high reliability, long service life, small vibration,low noise, stable speed, instantaneous startup, reverse and stop
- lifting timeout protection, ensure barrier rodnot to exceed

2.3 Mechanical Feature

- precision sinusoidal link mechanism,barrier rod realizes slow startup and move rapidly and stably without shock
- brake machine of special processed steel with senior metallic paint or molding powder, beautiful, corrosion protection and fade-proof by ultraviolet irradiation
- waterproof, moisture proof,dustproof for brake machine
- barrier rod of special aluminum material, reflective film attached, visible at night
- folding or fence type barrier rod customized in height limited space and underground parking lot
- barrier rod can be installed on the left or right (right default)

2.4 Main Technical Parameters

TAB Series High Speed Barrier Gate

Model	TAB-1114	TAB-1118	TAB-1109
power source voltage	AC220V±10%	AC220V±10%	AC220V±10%
Power source frequency	50/60Hz	50/60Hz	50/60Hz
Motor rated power	120W	120W	120W
Standard rod length	3m	3m	2~3m
Noiselevel	≤60dB	≤60dB	≤60dB
Rod lift time	1.4S	1.8S	0.9S
Life time	≧5 million	≧5 million	≧5 million
Rodmalfunction	≯0.01%	≯0.01%	≯0.01%
Rod center height	900mm	900mm	900mm
Brake machine dimension	350×350×1050mm		

DAB Series Intelligent Barrier Gate (integrated motor and reduction box)

Model	DAB-1400	DAB-4400
Power source voltage	AC220V±10%	AC220V±10%
Power source frequency	50/60Hz	50/60Hz
Motor rated power	120W	120W
Standard rod length	3~6m	3~6m
Rod lift time	4S/6S	4S/6S
Life time	≧5 million	≧5 million
Rod malfunction	≯0.01%	≯0.01%
Rod center height	900mm	900mm
Brake machine dimension	DAB-1400:310×250×1050mm;DAB-4400:350×250×1055mm	

MINI -H/Guard-H Series Intelligent Barrier Gate (integrated motor and reduction box)

Model	MINI -H	Guard-H
Power source voltage	AC220V±10%	AC220V±10%
Power source frequency	50/60Hz	50/60Hz
Motor rated power	250W	250W
Standard rod length	3m	3m
Rod lift time	1.5S	1.5S
Life time	≧1 million	≧1 million
Rod malfunction	≯0.01%	≯0.01%
Rod center height	800mm	800mm
Brake machine dimension	MINI -H: 325×107×975mm; DAB-4400: 320×215×970mm	

2.5 Service Condition

Please operate **Barrier Gate** as following:

- working temperature: TAB series: - 30℃ ~ + 70℃
  DAB series: - 20℃ ~ + 70℃
  MINI/Guard-H: - 20℃ ~ +60 ℃
- relative humidity: 20% ~ 95%
- install reliable reduction device to car coming direction, to make vehicle slow down and avoid hitting rod
- ensure device reliability and stability when equipping vehicle sensor, infrared correlation pressure waves device
- other constraint terms in contract

3. Installation and Test

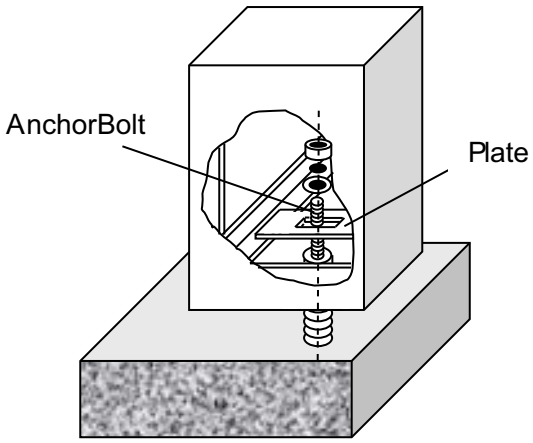
Please note: **Barrier Gate** must be installed by qualified technician . Installation must comply with the relevant laws and regulations. Before installation, please read user manual carefully.

3.1 Installation Preparation

Determine the installation position of the **Barrier Gate** , pouring - 1020cm high waterproof and anti-collision concrete plinth. Lay 220V 3x1.5^{2}mm single-phase power supply cords and 6x0.5 mm^2 shielding control cord in the center of **Barrier Gate** Connect cords to gatehouse for convenient control.

3.2 Brake Machine Installation

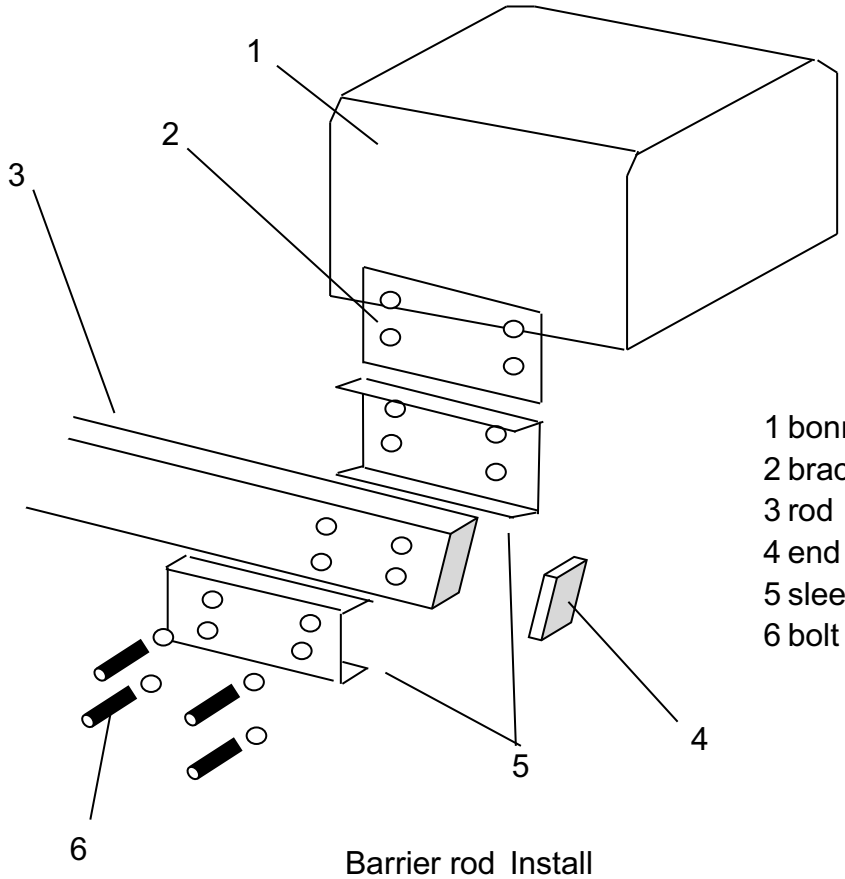
On the completed concrete plinth, according to brake machine base size and random distribution of plate plinth hole bits, embed four sleeve anchors and use plate plinth to install intelligent brake machine to concrete plinth. If anti-collision mechanism exists, please ensure anti-collision mechanism release side and vehicle driving way in the same direction. If adjusting barrier rod's direction, unscrew the nut and adjust brake machine to a suitable position and angle and tighten the anchor bolts.



BrakeMachine

3.3 Barrier rod Installation

As shown below, use the accessories (sleeve, bolts) to install rod into groove of outer end of long shaf bracket.Use M8 bolts to tight rod and shaft bracket.
Attention: Keep rod and shaft bracket in horizontal position when installing barrier rod



Barrier rod Install

Warning: For the barrier rod with anti-collision rod off unit, fender pile should be set up in the front of brake machine 1 meters (barrier roddirection) and roghly 50 centimeters taller than brake machine. Barrier rodwill be controlled in the range of 90 degrees in horizontal direction. Do not allow pedestrians to stand and items placed in order to prevent injuring people or objects in an event of vehicle collision.

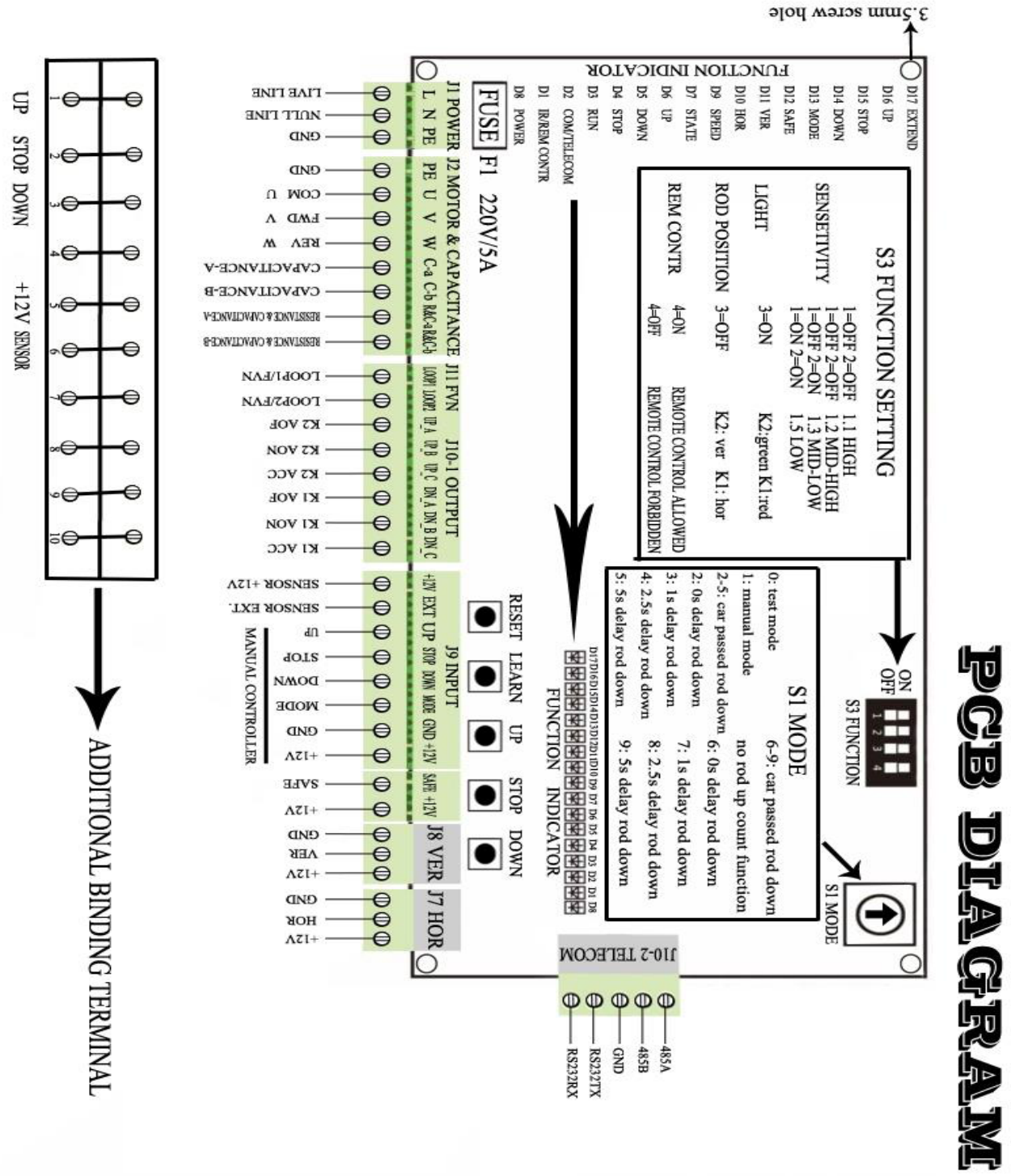
3.4 Power Lines Attached

3.4.1 Main Power Source Connection

Disconnect air switch, connect 220v AC live wire and null wire to the input end of air switch and ground wire to earth terminal in control box. Connect the output end of air switch J1 terminal blocks of host controller.

Attention: L connect live wire, N connect null wire, PE connect ground wire, distinguish between "connect null wire" and "connect ground wire".

3.4.2 Master Control Circuit Board Diagram



Safetyswitch could connect withinput end of infrared correlation and pressure wave device

3.4.3 Remote Control Handle Connection

Remote control handle is installed in places such as gatehouse or convenient control house. It is connected to master control board through embedded 6x0.5mm^2 shielded wire. J9 control input port in master control board is connected to relative control switches of remote control handle. And +12V connects to handle common terminal.

3.4.4 Vehicle Sensor Connection

If installing vehicle sensor, please connecting it to J9 input sensor +12V and sensor EXT directly.

3.4.5 Safety Device Connection

In order to strengthen the security performance of the system, output COM and AOF terminal of infrared correlation and pressure wave etc car smashing protection safety device relay need be connected to J9 input safe and +12V.

3.4.6 Barrier rod–Signal Light Output Connection

If using signal lights output type, firstly turn on dip-switch DIP3 in master control board. When rod is rising to the vertical state, K2 is connected but K1 is disconnected. When rod is falling to the horizontal state, K1 is connected but K2 is disconnected. So, K2 AOF and K2 ACC of J10-1 output on master control board connect green indicator, K1 AOF and K1 ACC to red indicator.

If using rod movement output type, firstly turn off dip-switch DIP3 in master control board. When rod is rising to the vertical state, K2 is disconnected. So, K2 AOF and K2 ACC of J10-1 output on master control board connects signal of rising to vertical state, K1 AOF and K1 ACC to signal of falling to horizontal state.

Attention: Do not operate signal lights and rod movement output mode synchronously

3.4.7 Serial Communication RS232 and RS485 Connection

When user need control brake machine through serial port, please pay attention to ordered products model S or R suffix. S represents RS485 interface on master control board and R is RS232 interface. (Refer to appendix 1).

If it is RS232 interface, please connect J10-2 telecom RS232TX/RS232RX/GND to sending/receiving/SG of upper host RS232 interface. If it is RS485 interface, please connect J10-2 telecom 485B and 485A to B and A of upper host RS485 interface.

Attention: Do not operate RS232 and RS485 synchronously RS485

3.4.8 Master Control Board Indicators Introduction

Diagram3.4.8

s/n	Working indicators	State Introduction
1	D1 remote control	Light flicker: remote controller ofhost control board is receiving commands
2	D2 telecom	Light flicker: serial is sending or receiving data
3	D3 motor running	Light on: motor is running at full power Light off: motor stops
4	D4 rod stops	Light on: rod is in the default state Light flicker: rod is not in the default state
5	D5 falling	Light on: rod is in the horizontal default state Light flicker: rod is falling
6	D6 rising	Light on: rod is in the vertical state Light flicker: rod is rising
8	D9-D17 Signal input	Indicator lights up when input terminal signal inputs D10: intelligent **Barrier Gate** as horizontal limit input, high speed **Barrier Gate** as speed test input D11: intelligent **Barrier Gate** as vertical limit input, high speed **Barrier Gate** as limit input D12: safety input D13: man-auto input D14: falling input D15: stop input（only for intelligent） D16: rising input D17: external sensor connection input ·rising/falling/stop button priority level: rising＞ stop ＞ falling ·safety or external sensor connected signal inputs;buzzer will sound once in 1s. ·rising/falling/stop signal inputs; buzzer will sound until signal disappears.

3.4.9Buzzer & D7 Indicator Working Mode Introduction

Diagram3.4.9

s/n	component	Output Mode	Working state	Relative Solution
1	Buzzer	Long sound once 1s	reset	Normal working
2	Buzzer	Sound once, button sync	Effective rising, falling stop button	

3	Buzzer	1 cycle(2s) short sound once	Effective sensor, safety switch		
4	buzzer D7indicator	1 cycle(0.2s) short sound once 0.1s	Learning process		
5	buzzer D7indicator	Long sound once 2s	Learning succes		
6	buzzer D7indicator	1 cycle(2s) short sound twice	Motor running time out	Intelligent **Barrier Gate**	1. check sensor failure or not 2. check timeout coefficient over small or not 3. check encounter obstacle or not
			Usual motor running speed	High speed **Barrier Gate**	1. check limit, speed sensor failure or not 2. check encounter obstacle or not 3. check when rod falling, sensor, safety, rising signal failure or not 4. check sensitivity over low or not
7	buzzer D7indicator	1 cycle(2s) short sound 3 times	Learning failure	Please refer to item 6	
8	buzzer D7indicator	1 cycle(2s) short sound 4 times	Setting errors	Please adjust S1 mode to the working mode you want, refer to content 3.6.3	

* D7 indicator output and buzzer output synchronization, in the absence of 1-3 situations, buzzer sound D7 lights on, buzzer no sound D7 lights off.

3.5 Power Lines Connected Detection

Warning: Do not connect powersource when checking powerlines

According to item 3.4, connect power source and control line, and check power lines as following:

The following operation is hot line work. Some parts are with 220V AC voltage, therefore it is very dangerous! Be careful when operating, and do not operate individually Please ensure complying with the content of the "warning" section in this manual.

- First, check the 220V AC power line connection right or not. Pay special attention to "null wire" and "ground wire". According to wiring diagram, in turn, check wire connection of motor control port J2; control input port J9, telecom and output J10. Correct immediately if errors exist.
- Pull the wires near the pressed line terminal slightly. Check each power line is pressed tightly or not. If finding some loosen, please rewiring and tighten pressed line terminal.
- Check limit sensor connected or not. If not connected, please connect the wires and sensor.

3.6 Power-on Test

3.6.1 First Electricity Connection

After checking without problem, do electricity connection. Close air switch, use multimeter AC voltage to test 220V working voltage normal or not and use DC voltage to test 12V output voltage on line terminal normal or not. If it is not normal, please power off immediately and check circuit and contact with suppliers. If it is normal, buzzer will send 1s long sound (Refer to 3.4.9 item 1). If rod does not stop in vertical or horizontal state, rod stop indicator D4 will flicker once every 0.1 second.

For High Speed Barrier Gate:

Even in the default limit position, rod stops indicator D4 will flicker and other indicator lights out Master controller receives rising or falling command for the first time, motor will stop running. When rod is on the limit position, rod will stop and D4 indicator will not flicker but light on. So D5 and D6 indicators do. It represents master controller works normally.

Master controller has not been studied, press rising or falling button. Motor will run once and stop soon as unusual speed. Speed is unusualif D7 indicator flickers and buzzer sounds to indicate unusual speed (Refer to 3.4.9 item 6). The situation occurred represents motor action is normal

For Intelligent Barrier Gate:

Rod is in default limit position, rod stop D4 indicator and relative D5, D6 indicators will light on. It represents master controller works normally.

Master controller has not been studied, press rising or falling button. Motor will run once and timeout D7 indicator flickers and buzzer sounds (Refer to 3.4.9 item 6). The situation occurred represents motor action is normal, too.

3.6.2 Parameters Learning

For customer's convenience, products add the operation load and operation time parameter learning function, to make **Barrier Gate** adapted to different motor and rod length load automatically.

- **Precautions**
  1、 Before parameter learning, please adjust vertical and horizontal limit switch position, adjust and learn sensitivity and install rod well. In process of learning, make **Barrier Gate** studies by itself. Do not press rising/falling/stop button without emergency situation. Any button input or safety switch signal input will interrupt learning.
  2、 Barrier Gate needs learning in following situation:
     a. Users change inner parts or rod, especially rod length
     b. Users adjust and balance spring again
  3、 High speed **Barrier Gate** deceleration angle must be settledbefore learning. Refer to 3.6.8chapterabout deceleration angle adjustment.
- **Startup Learning**

Press master controller LEARN button 3 seconds, **Barrier Gate** will be in study function automatically. And D7 indicator will flicker and buzzer will sound in same frequency (Refer to 3.4.9 item 4). If rod is not in horizontal default limit position,barrier gatewill search horizontal limit position. The learning process as following:

For Intelligent Barrier Gate: rising-falling-rising-falling-finish

For High Speed Barrier Gate: rising-wait 2s-falling-wait 2s-finish

- **Learning Success**：Working state D7 indicator lights on 2s, buzzer sounds 2s (Refer to diagram 3.4.9 item 7). Learning failure can be released by reset
- **Learning Failure**：Working state D7 indicator flickers, buzzer sounds 2s (Refer to diagram 3.4.9 item 7). Learning failure can be released by reset.

  For Intelligent Barrier Gate: If not finding limit switch in learning process, learning will be in failure. And need check limit switch position, reset system and study again.

  For High Speed Barrier Gate: If learning unusual data, learning will be in failure. And need check sensor is normal or not, reset and study again.

Warning: In the process of learning, do not allow pedestrians to stand and vehicles to pass within the scope of rod movement in case of accidents.

3.6.3 Working Mode Selection

We provide testing/ manual/auto rod falling three main working modes. Users can select proper working mode through adjusting MODE code switch S1 in master controller.

- **Test Mode** used to test products. Users do not operate. In this mode, Barrier Gate performs repeatedly automatically: rising rod-wait 5s-falling rod-wait 5s. High speed **Barrier Gate**will rebound encountering obstacles.
- **Manual Mode** "rod falling automatically when car passed away" and "car team continuous release" functions are forbidden. When S1 is set as manual mode, remote controller "man/auto" switch will be in failure.

Car team continuous release: In auto mode, **Barrier Gate** receives N times rising rod commands and allow N cars to pass away. And rod will fall down after the N car passed away. The max numberof continuouscars is 255. This function is suitable for articulated vehicles.

- **Auto Mode** "rod falling automatically when car passed away" and "car team continuous release" functions are allowed. Vehicle sensors must be installed if system starts up auto mode.

Diagram 3.6.3 master control board and S1 switch setting

S1 setting value	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Rod falling delay time(s)	**0**	**0**	**0**	**1**	**2.5**	**5**	**0**	**1**	**2.5**	**5**
Working mode	Test mode	Manual mode	Auto mode with rod rising count function				Auto mode without rod rising count function			

Attention:

1. After changing mode, must press RESET button to activate system.
2. Rod rising count function: **Barrier Gate** keeps recording rod rising times function. Barrier Gate receives several rod rising signals. Sensor must detect the same times car passed signals. Rod will fall down.

3.6.4 High Speed Barrier Gate Obstacles Detection & Sensitivity Setting

TAB series high speed **Barrier Gate** keeps rod obstacle detected function. Rod will raise immediately encountering obstacles in rod falling process. Rod will stop and unlock immediately encountering obstacles in rod rising process. And indicators will flicker and buzzer will sound (Refer to Diagram 3.4.9 item 6). It can prevent accidents to the largest extent.

DIP1 and DIP2 of S3 function switch on master control board are used to set detecting obstacle sensitivity in rod movement. 4 levels can be adjusted, referring to diagram 3.6.4

Diagram3.6.4 Parameter Setting

S3 Setting	Binary Value	Level	Intelligent Barrier Gate (timeout coefficient)	High Speed Barrier Gate (sensitivity)
DIP1=OFF DIP2=OFF	00	0	1.1	high
DIP1=ON DIP2=OFF	01	1	1.2	Middle high
DIP1=OFF DIP2=ON	10	2	1.3	Middle low
DIP1=ON DIP2=ON	11	3	1.5	low

3.6.5 Intelligent Barrier Gate Timeout Coefficient Setting

Barrier Gate equips vertical and horizontal limit switch. To protect Barrier Gate running safety, timeout protection function is added. When motor actual running time is over settled protective time, motor will stop running. D7 indicator flickers and buzzer sounds in a same frequency to point out movement timeout (Refer to diagram 3.4.9 item 6). But TAB series still work. To make **Barrier Gate** the best performance, please check limit sensor. When detected to limit position, TAB series recovers automatically.

Motor running timeout time = motor running time × timeout coefficient Motor running time comes from learning function and timeout coefficient is settled by DIP1 and DIP2 of function setting switch (Refer to diagram3.6.4).

3.6.6 High Speed Barrier Gate Deceleration Angle Setting

To ensure high speed **Barrier Gate** rod movement stationary, rod movement deceleration angle must be settled before testing learning.Deceleration angle is the angle of rising rod and vertical direction or falling rod and horizontal direction. When rod moves to the settled deceleration angle position, motor start to decelerate and make rod moving stably. Deceleration angle is settled through DIP41 of dip-switch S2 Refer to diagram 3.6.8

Diagram3.6.8High Speed Barrier GateDeceleration Angle Setting（ON=1，OFF=0）

DIP4—1	0000	0001	0010	0011	0100	0101	0110	0111
Setting value	0	1	2	3	4	5	6	7
Deceleration value	5°	10°	15°	20°	25°	30°	35°	40°

3.6.7 Signal Lights/ Barrier rod Movement Output Mode Selection

Turn on DIP3 of dip-switch in master control board to activate signal lights output type. Turn off DIP3 to activate rod default position output type. Refer to 3.4.6 “Barrier rod-Signal Light Output Connection” chapter

3.6.8 Remote Control Mode Setting

Turn on DIP4 ofdip-switch S2 in master control board and allow remote controller TAB rising/falling/stop. Turn off DIP4 to forbid remote controller.

3.7 End Test

When finishing each setting in 3.6, please reset systempress reset button or re-up electricity . If system needs learning again, reset system after learning.

Make sure finishing testing work!

Congratulations! Now **Barrier Gate** can serve for you!

4、 Maintenance

- 1. Change lubricating oil after reducer runnnig150 -300 hours for the first time. Check oil regularly and change it immediately once deteriorating. Do not add oil too much and check oil leakage. Too much oil will make high oil temperature. Oil changing after reducer running 870 -1500 hourswill slow down mechanical efficiency. Oil can be not interrupted in reducer operation. Machine will burn out in short time with oil cut. At rated power, turbine reducer's temperature should be within the scope of the middle of the window under the rotated speed unning condition. Check oil temperature firstly. Add oil to the middle of the reducer window for intelligent **Barrier Gate**. Vortex rod oil is preferable. If not, the replacement as following: a. hyperbolic gear oil b. vehicle engine oil

- 2. Regular check Check once every three months. A. the reliability of the conductor and the plug-in connection. B. the screw and nut etc fastener condition and tighten the looser C. the attrition of rotating parts and inject lubricating oil. And repair or replace serious parts.

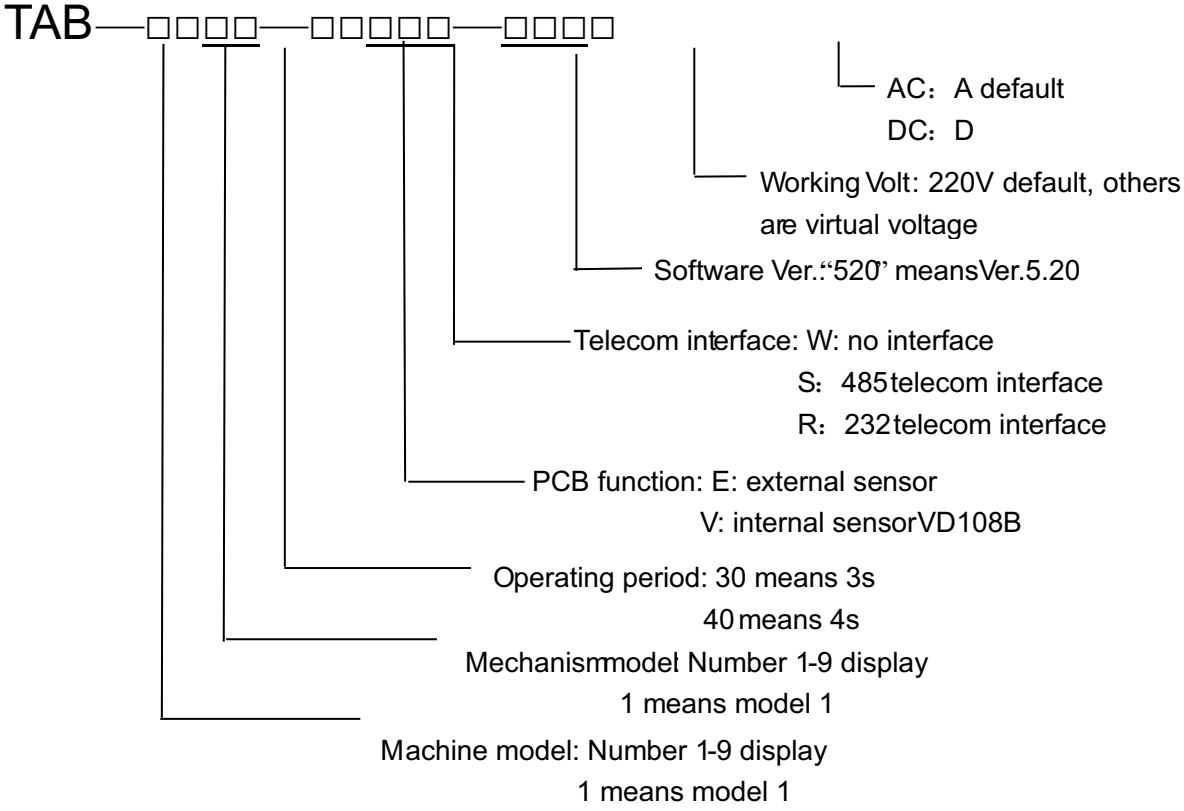
Precautions： Often clean dust to keep machine tidy. If technical problems occurred, please refer to System Faults & Solution. If problems can not be solved, please turn to technicians to repair and operate.

5、System Faults & Solution

Faults	Barrier Gate Type	Causes	Solution
Connecting power source, rod not to answer anyinput signal	High speed/ intelligent	·mode / parameters setting errors ·input signal connection errors ·no wiring or joint loose ·host controller damaged ·fuse blows ·startup capacitor but not to connect motor	·reset again ·rewiring in right way ·connection test ·repair or replace host controller ·replace fuse ·connect qualified capacitor
Only rising rod, not falling rod	High speed /intelligent	·safety switch closed, car on the sensor ·rising/stop button pressed ·rod falling button wire connection errors ·host controller damaged	·check safety switch and repair ·loose rising/stop button ·rewiring in right way ·repair or replace host controller

Rod can not stop	intelligent	·stop button wire connection errors	·rewiring in right way
Only falling rod, not rising rod	High speed/intelligent	·rising button wire connection errors ·host controller damaged	·rewiring in right way ·repair or replace host controller
Rod falling when rising button pressed, rod rising when falling button pressed	High speed/intelligent	·opposite rising wire and falling wire connection ·external wire connection errors if rod operated normally when controller button pressed	·rewiring in right way ·rewiring in right way
Motor can not make rod run	High speed/intelligent	·spring tension not balanced	·adjust spring tension
Rod stops when rising, rod rises when falling	High speed	·high sensitivity ·encounter obstacles	·reset sensitivity ·move obstacles
Sudden stop when rod rising/falling	intelligent	·over quick sensor information received ·over small timeout coefficient	·adjust sensor in proper position ·adjust timeout protection coefficient and reset
Continue running when rod rising/falling in default position	intelligent	·sensor position over behind or wire connection errors, can not detect effective sensor signal	·adjust sensor in proper position or rewiring in right way
Rod not falling in automatically mode when car driving away	High speed/intelligent	·number of vehicles passed less than rising signal's ·serial port sends rod rising directive ·safety switch inputs signals	·press falling button when car passed ·press falling button or execute falling command in serial port ·check switch and enable switch normal

Appendix1：Product Name Rules Introduction



Example: DAB-2430-E520-220A presents DAB-400 series intelligent **Barrier Gate**, model 2 brake machine, model 4 cores, 3.0s working period, using external sensor, software version Ver.5.20 and using 220V AC to supply electricity.

Appendix 2: Installation Record

Installation Date : _____

Installation Place : _____

Telephone Number : _____

Installation Personnel : _____

Service Telephone Number : _____

Service Records: _____

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