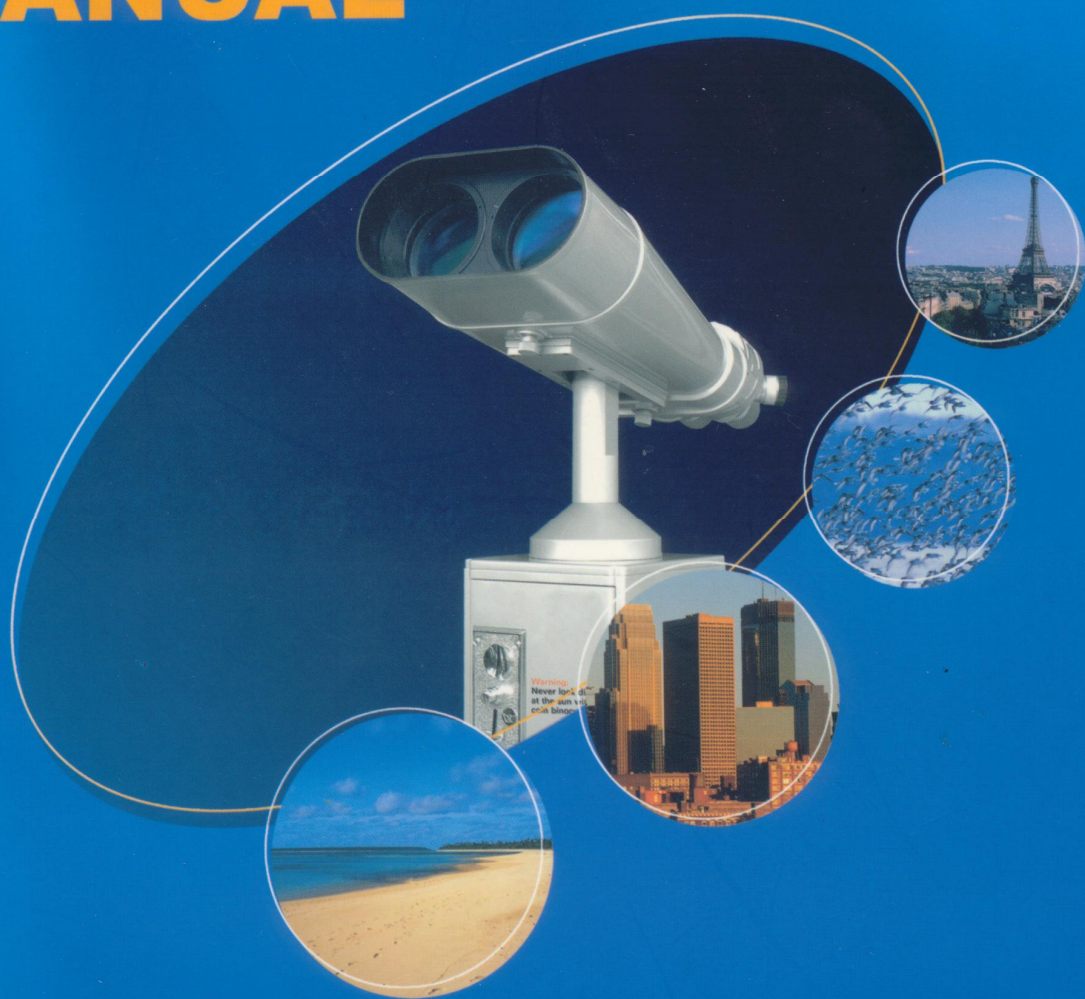


# WTB-B

## SERIES COIN BINOCULARS

### OPERATION MANUAL





# SERIES COIN WTB-B BINOCULARS

Dear customer:

Thanks for using our series high magnification binoculars.

With novel appearance design and excellent optical performance, the binoculars will make your vision wider and clearer so that you can see the world in a marvelous way and be deeply impressed by the colorful world.







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# WTB-B-B SERIES COIN BINOCULARS

## General Introduction

- Series coin binoculars model WTB—B are provided for fixed observation on the high buildings and scenic spots.
- Fig.1 shows the appearance of the erected binoculars.
- The binoculars have been designed with a built-in diaphragm in the optical path. When the tourist puts a specified coin into the coin opening, the diaphragm is opened according to the preset time, and the tourist can observe the target through the binoculars.

## 1. Technical performance

### 1.1 Main optical characteristics

Model Item	WTB—B25I ( )	WTB—B25I-1 ( )	WTB—B40 ( )	WTB—B40I-1 ( )
Magnification	25x		40x	
Exit pupil diameter	Φ 4mm		Φ 2.5mm	
Exit pupil distance	14mm		8.2mm	
Field of view	2° 30' (43.6m at 1000m)		1° 30' (26.2m at 1000m)	
Resolution	24"		24"	
Diopter range	Fixed 0 dpt	± 5diopters	Fixed 0 dpt	± 5diopters
Focusing range	30m~∞		60m~∞	

**Note:** the sign "✓" in bracket shows the model of the product delivered this time.

### 1.2 Mechanical characteristics

- Azimuth range: 0~315°
- Range of pitching down: 0~30°
- Range of pitching up: 0~45° ( or 0~60° )
- Interpupillary range: 58~72mm
- Overall size(the binoculars): 550 (L) × 250(W) × 240(H)mm
- Height of complete product: 1.5m
- Weight of complete product: 84kg

### 1.3 Electrical characteristics

- The power supply can be provided form one of the following two options:  
Any one between 85 and 265V(47~440HZ); DC12V+1.5V:
- Viewing time is controlled as 1sec~5hrs:  
When the binoculars leaves factory, time of control have been set in the range of 0~5min, user may select in the range.
- Under voltage display of DC power supply:  
Displayed by a DC voltmeter. When DC power supply is used, if the voltage is below 10.5v, the battery must be replaced.
- Different metal coins can be identified: when the coin is different form the specified coin, the diaphragm can not be opened and the wrong coin will be rejected.
- Requirement for the specified coin:  
Diameter: 18mm~31mm Thickness: 1.2mm~3.0mm
- Power consumption: ≤ 5w.

1.4 Environmental temperature: -10° C~+40° C

**Note:** Never use it in the rain



## 2. Installation and Adjustment

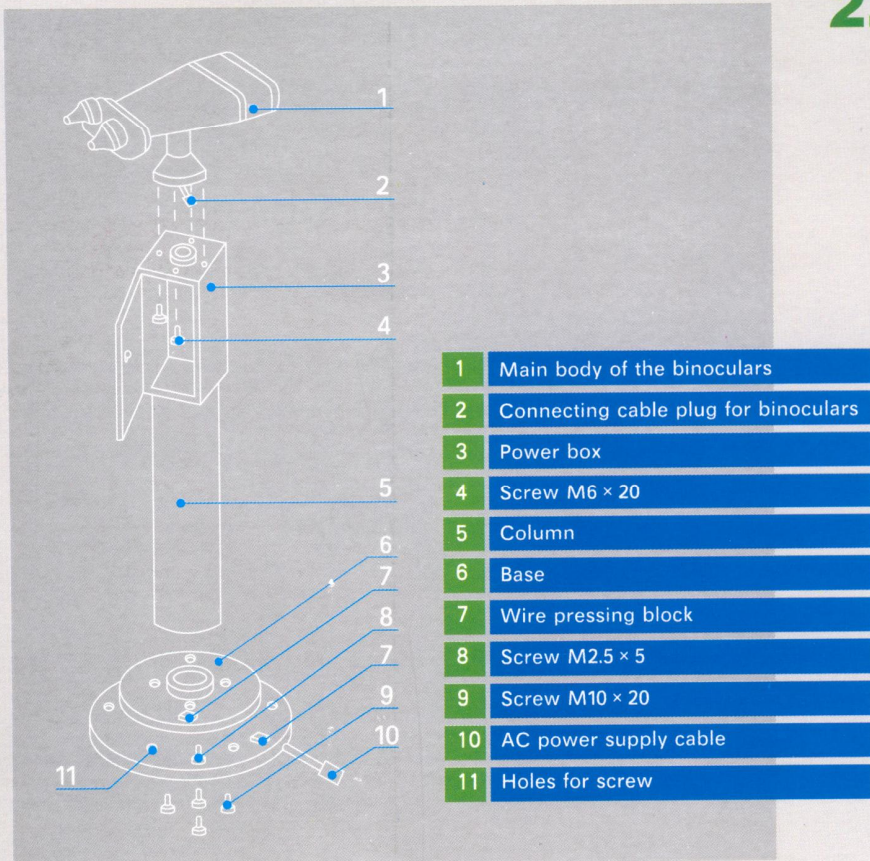


Fig.2

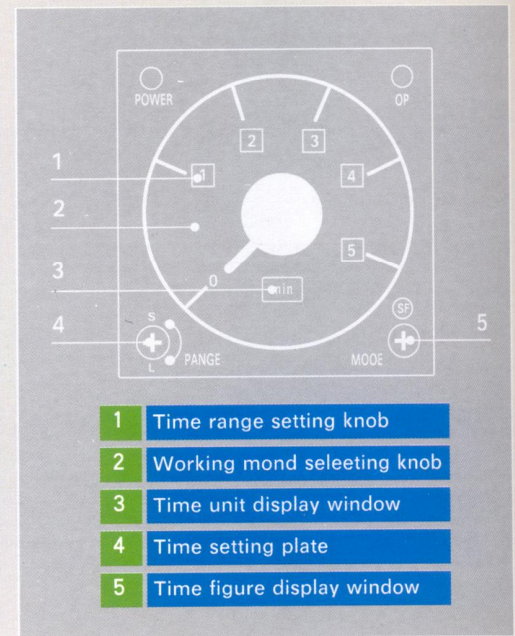


Fig.4

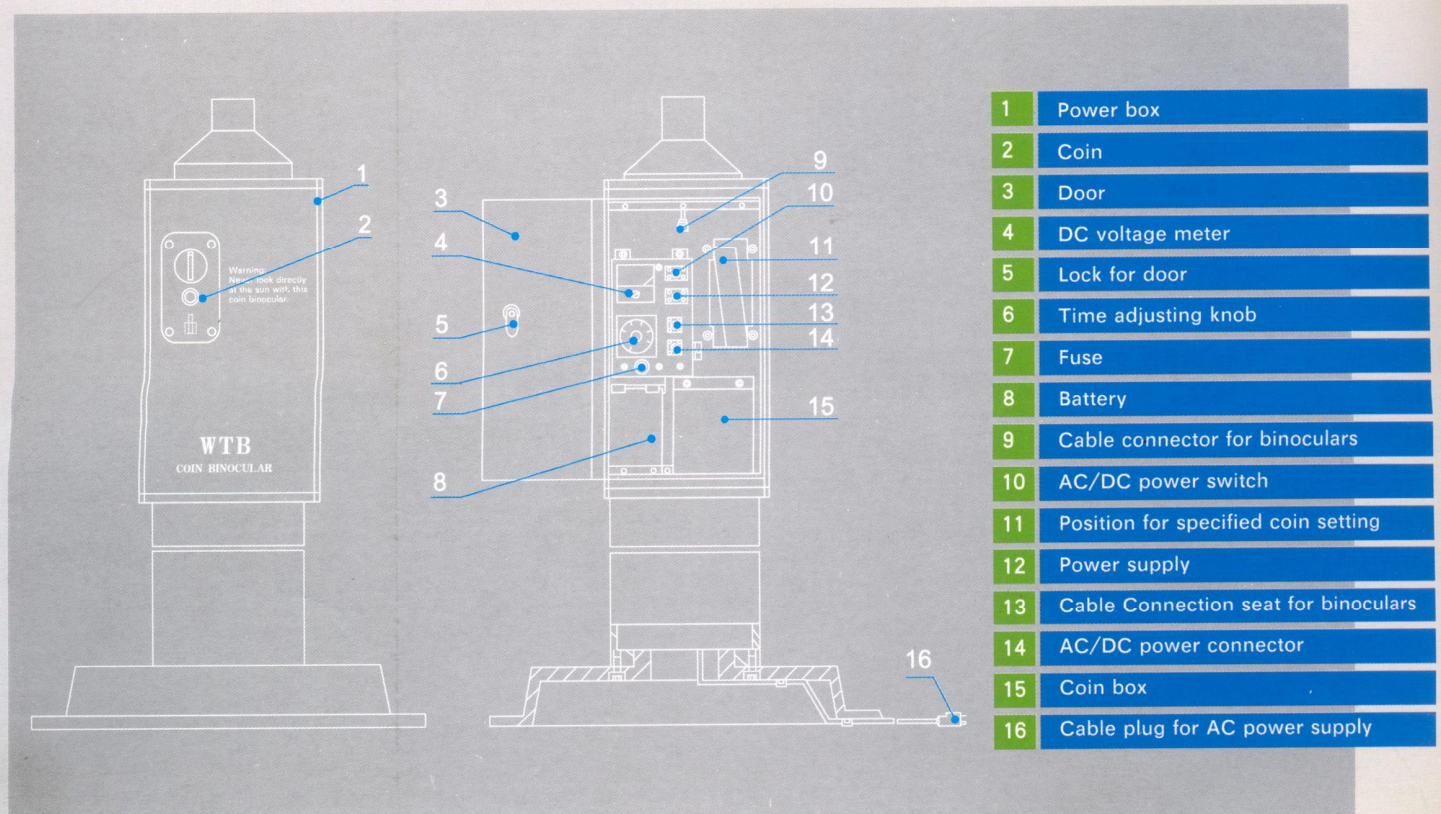


Fig.3



## 2.1 Installation procedure

### See Fig. 2

- a) Insert No.5 into No.6, fit No.9 and tighten No.9 with an inner hexagon wrench attached.
- b) Insert No.7 into No.6, fit No.8 and tighten No.8 with a screwdriver attached.
- c) Insert No.1 into No.3, fit No.4 and tighten No.4 with an inner hexagon wrench attached.
- d) Insert No.2 into No.13 (socket for cable of the binoculars) in Fig.3, then tighten it clockwise. The erection of the binoculars is completed.
- e) If the binoculars are to be erected for long—term observation, holes can be drilled in the place where the binoculars will be erected according to the screw holes and the binoculars can be fixed in place with screws.

## 2.2 Commissioning and usage of electric unit

### 2.2.1 Electrical unit (see Fig. 3)

#### 2.2.2 Usage

Before using the product, open No.3 with the key of No.5, then set the specified coin according to the description in English on No.2. Set No.6 to the required time. Refer to 2.2.3 for coin setting.

##### 2.2.2.1 Usage of AC power supply

The power supply of the binoculars is applicable to a wide range of power voltage. It is applicable to any voltage between 85 and 265V(47~440HZ).

- a) No.12 is set in "OFF" position and No.10 in "AC" position.
- b) Switch on No.16, set No.12 in "ON" position, now the electric unit is working with AC power supply and the diaphragm of the binoculars is in close position, nothing can be seen.
- c) Put the coin (same as specified coin) into No.2, the diaphragm is opened. Now you can observe within the set time. When the set time is up, the diaphragm will automatically return to close position, you can't see anything. If you want to continue your observation, you have to put in another coin.

**The power supply should be switched off when daily operation is finished.**

##### 2.2.2.2 Usage of DC power supply

The binoculars are provided with a special rechargeable battery (see No.8 in Figure3).

- a) Set No.12 in "OFF" position and No.10 in "DC" position.
- b) Set No.12 in "ON" position. Now the electric unit is working with DC power supply and the diaphragm of the binoculars is in close position, nothing can be seen.
- c) The operation is the same as that with AC power supply as mentioned under of 2.2.2.1.c

### 2.2.3 Setting of specified coin (it has to be done with power supply switched off) as shown in Fig.3

Set the coin according to the description. The coin to be used should be the same as the specified coin. Otherwise it won't work.

### 2.2.4 Setting of viewing time (it has to be done with power supply switched off).

The viewing time can be set by the user by moving No.6.

### 2.2.5 Taking out the coin (it has to be done with power supply switched off). If the coins in No.15 have to be taken out, open No.3 first, then lift it up slightly and remove No.13, pour out the coins from No.15 and put it back to position.

### 2.2.6 Replacement of the battery (it has to be done with power supply switched off).

When the binoculars are working with rechargeable battery, if the voltage of the battery shows lower than 10.5 VDC, the battery needs to be replaced, The battery being replaced can be used again after it is recharged with the charger attached (Refer to the manual of the charger for the method of charging).

### 2.2.7 Setting of long controlling time (see Fig.4)

When the product leaves the factory, the controlling time is already set in the rang of 0—5min. The customer can make choice within thie range. If the customer needs longer time, he can reset the controlling time with reference to Fig.4 (No.6 in Fig.3). The procedure is as follows:

- a) Turn No.4 "RANGE" clockwise with a screwdriver (i.e. "L" side). While No.4 is being turned, No.3 displays time unit; "see". "min" and "hrs", No.1 displays time figure.
- b) Now the customer can set time unit and figure.
- c) Turn No.2 to bring the hand to the figuis needed.

**Note: No.5 "MODE" is already set when the product leaves the factory. Never attempt to adjust it!**

Time setting example: If the customer needs to take maximum 5 hours as controlling time, he just turns No.4 clockwise to make No.3 display hrs and No.5 display the figures of "0,1,2,3,4,5" till the hand of No.2 points at "5".



# WTB-B BINOCULARS



Fig.1



# WTB-B-BINOCULARS

## SERIES COIN

### 3. Precautions

- 3.1 when the binoculars are not in use, the power supply should be turned off and the binoculars should be covered with the cover.
- 3.2 When AC power supply is used, the voltage must be in the range of 85~265V: (47~440HZ), otherwise the binoculars will be damaged or not work.
- 3.3 The service free battery must be taken out if it is not in use for a long time.
- 3.4 The electrode of the service free battery should neither be short circuited nor close to heat source of high temperature. The battery can't be recharged with large current and high voltage. The recharging of the battery should follow the manual of the charger strictly.
- 3.5 The coin used should be coincident with the specified coin.
- 3.6 If the binoculars do not work, No.12 (switch of power supply) in Fig .3 should be set in "OFF" position.

#### 3.7 Simple trouble shooting

- 3.7.1 If the binoculars do not work when AC and DC power supply is turned on respectively, in case of AC power supply, check No.16 (cable of AC power supply) in Fig.3 for good contact at the connection of the plug. In case of DC power supply, check No.8 (the service fee battery) in Fig.3 to see if the electrode is connected firmly to the plug, Check No.12 (switch of power supply) and No.10 (switch for AC/DC power supply) in Fig.3 and see if they meet the requirement of operation.

- 3.7.2 If the binoculars work properly with AC power supply, but do not work properly with DC power supply, check No. 10 (switch for AC/DC power supply) in Fig.3 for proper switching. Check the voltage of No.8 (the service fee battery). If the voltage is lower than 10.5VDC,the battery must be replaced and recharged.

If the binoculars work properly with DC power supply, but do not work properly with AC power supply, check No. 16 (cable of AC power supply) for good contact and see if the voltage meets the requirement. Check No.10 (switch for AC/DC power supply) in Fig. 3 for proper switching. Check NO. 7 (the fuse) and see if it is fitted or damaged. If the fuse is damaged, replace it with spare fuse.

- 3.7.3 If the coin can't enter No. 15 (coin box) shown in Fig. 3 and is rejected, check if the specified coin is set and the coin used is coincident with the specified one, check if the voltage indicated on No. 4 is lower than 10.5V.

- 3.7.4 If the trouble can not be removed by the above-mentioned operations, the use of the binoculars should be stopped and the trouble shooting should be done by the specialist.



## 4. Complete product and accessories

### 4.1 Contents in main body box

a	Box for binoculars	1 piece
b	Main body of the binoculars	1 piece
c	Cover	1 piece
d	Desiccant	1 bag
e	Flannelette	1 piece
f	Manual	1 copy
g	Certificate	1 copy

### 4.2 Contents in column box

a	Column	1 piece
b	Electric unit assembly (connected with column)	1 piece
c	Fuse 0.7A $\phi$ 5x20	5 pieces
d	Key to the lock	2 pieces
e	Specified metal coin	100 pieces

### 4.3 Contents in base box

a	Base	1 piece
b	12V charger (including manual of charger)	1 set
c	12V/7AH service free battery	1 piece
d	Screw GB70-85-M10x20	4 pieces
e	Metal expansion screw M10x70	4 pieces
f	Wire pressing block	1 piece
g	Wire pressing plate	1 piece
h	Screw GB819-85 M2.5x5	2 pieces
i	Screw GB819-85 M2.5x14	1 piece
j	Wrench for M6 inner hexagon	1 piece
k	Wrench for M10 inner hexagon	1 piece
l	Screw driver with wooden shank (3inch)	1 piece
m	Screw GB70-85 M6x20	4 piece





# WTB-B SERIES COIN BINOCULARS





# Instruction for Coin Box Store of WTB-B Modified Coin Box-Binocular (Annex)

Fig.5

## 2.2.3 Setting and elimination for memory and store of additional coins

2.2.3.1 The profile of the coin box is as shown in Fig.5.

### 2.2.3.2 Setting for memory and store of additional coins

- a). Turn "Speed Signal Switch" to "Middle" position (see Fig.5);
- b). Turn "Setting Switch" to "Setting" position (see Fig.5);
- c). Put a specified coin into coin box through a throwing hole. At this time, memory and store of coin shall be finished.
- d). Turn "Setting Switch" to "Start" position, setting process is finished and the coin box-binocular can be used.
- e). When 8 kinds of different coins are stored, the store of coin box shall sound "B1---B1", means coins are stored full.

### 2.2.3.3 Elimination for memory and store of additional coins

When you want to eliminate the memory and store of additional coins, please do according to the following procedures:

- a). First, execute stipulations a) and b) listed in 2.2.3.2 mentioned above.
- b). Press "Adjustment knot" (see Fig.5), two seconds later, the coin box shall sound "B1---B1", means that elimination for memory and store of additional coins is finished.

#### Note:

- a). Powered on for 10 minutes before use or setting to ensure a good working condition.
- b). The specific metal coin and one Yuan RMB coin have equipped in coin box since the product is delivered from factory.
- c). The coin box used in this product can additionally store and memorize 8 kind of different metal coins, except for an original one Yuan RMB coin.

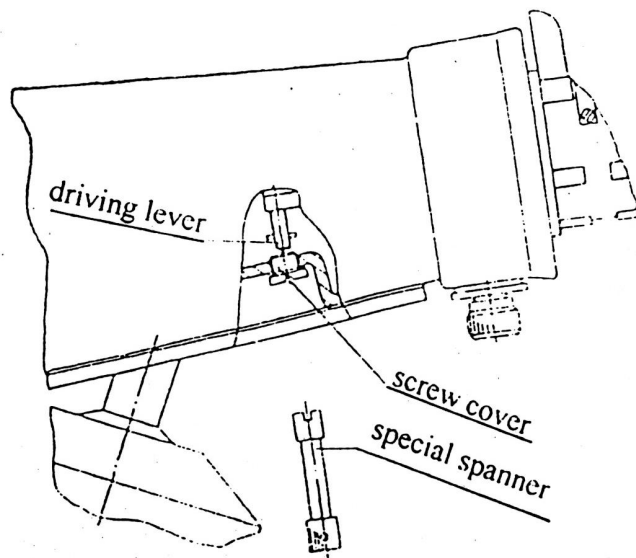
#### Notice:

*We have a right to modify parts and components used in the product without an additional notification for a further research and development.*



As shown in the Fig , if the electrical equipment of the binocular is damaged and cannot be repaired , the binocular will not be able to be used to observe . At this time , turn on the screw cover underneath the binocular , turn the driving lever inside the binocular clockwise to another locating tooth with the special spanner equipped in the accessories , and the anti-dazzling screen inside is open . Then close the screw cover as it was , and the binocular can be used to observe without putting in coins .

When the anti-dazzling screen inside has some jam seizure , turn it according to the method above and reset it , and the jam seizure is removed .





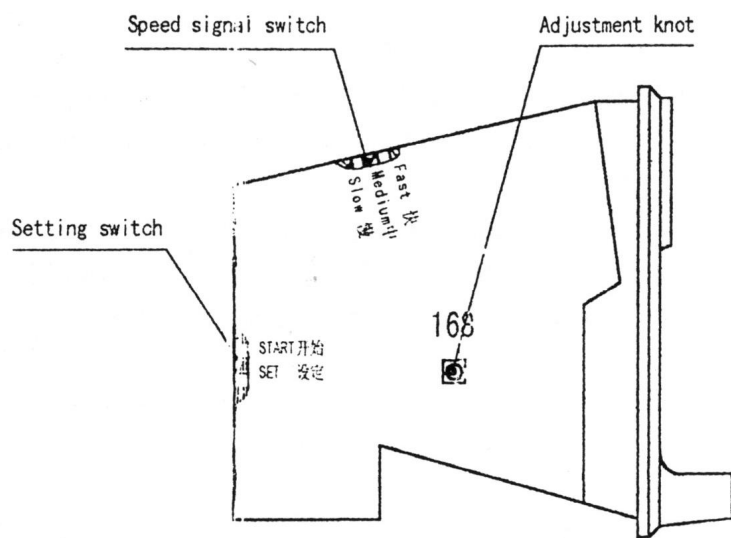


Fig.5