

then change the fuse tube.

## 5.2 Adjustment

This instrument have been adjusted critically before going out factory.If found the deviation of precision durint ripair,adjust it on following steps:

### 1. Adjust voltage

- a. Connect a universal meter (precision0.1%)to the output terminal for testing DC voltage.
- b. Adjust “MINVILTS”fine adjustment to mini-mum.
- c. Adjust“MINVILTS”fine tuning,make the univer-sal meter read 0.
- d. Adjust the voltage rough and fine adjustment to the largest(clockwise).
- e. Adjust“MAXVOLTS”fine tuning, make the read on universal meter is specified voltage  $\times 1.05$ .
- f. Adjust rough knob and make the read on universal meter is specified voltage.
- g. Adjust the adjustment resistor on voltage.  
Meter and make the read is specified voltage too.

### 2. Adjust current

- a. Adjust the current knob to the lest (counterclock-wise).
- b. Connect a universal meter on the power output ter-minal for test current.
- c. Adjust“CURRENT”knob and make the read on the universal meter is 0A.
- d. Adjust the rough and fine adjustment to the middle place.
- e. Adjust the current knob and make the read on uni-versal meter is the largest specified current value.
- f. Adjust the fine of adjustment resistor“PCB”on the front panel and make the indicate is same as the universal meter.

## 6. RANGE OF MAINTENANCE SERVICE

We provide maintenance service for two years from date which bought our instrument.During this time .If there quality problem on technolgy or parts . It makes the fault of instrument .Please send it to our company or vender for repair.If the imstrument have been changed or reworked or other damage by person’ s reason or use it on not right way instrument will not be served for maintenance.

## DC POWER SUPPLY PS-303D

### 1. SUMMARIZE

Adjustable DC stabilized voltage supply RK series is a high precision DC power with the output voltage can be adjusted unfailing continual adjustment and stabilized voltage can be changed to stabilize current automatically. This instrument has been designed for Lab, School and production line. The output voltage can be adjusted from 0 voltage to nominal value continually. The output loading current can be adjusted from 0 to nominal continually too. It possesses the best degree of stability and corrugation coefficient and perfect protect circuit for overload. It can be used as stabilized voltage supply or stabilized current supply.

### 2. PARAMETER SPECS

#### 2.1 Working condition

Voltage of power:110V  $\pm$  10%(50Hz-60Hz)

Working envirinment:temperature:0°C ~ 40°C

Relative humidity: < 80%

Store condition:timlperatuer:-10°C ~ -70°C

Relative humidity: < 80%

#### 2.2 Working status for stabilized voltage:

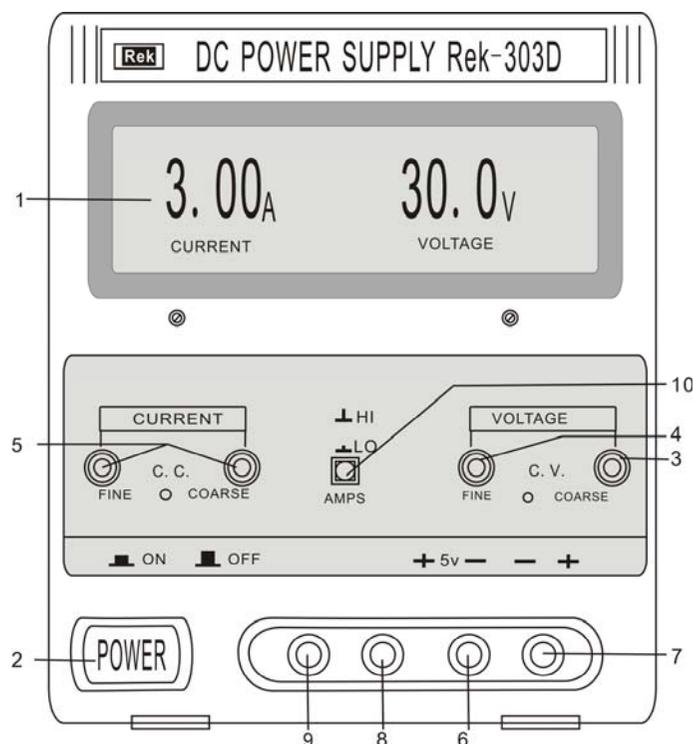
- a. Output voltage will be adjusted from 0 to nominal value continually.
- b. The stabilized degree of voltage.  
The stabilized degree of power:  $\leq 0.1\% + 2\text{Mv}$   
The stabilized degree of load:  $\leq 0.1\% + 2\text{Mv}$  (The maximum current is less than the nominal value).  
The stabilized degree of load:  $\leq 0.1\% + 5\text{Mv}$  (The maximum current is larger than the nominal value) .
- c. restore  $\leq 100 \mu \text{ s}$ .
- d. corrugation noise:  $\leq 0.5\text{Vrms}$  (5Hz ~ 1MHz, the maximum current less or epual nominal value) .  
 $\leq 1.0\text{Vrms}$ (5Hz ~ 1MHz,the maximum current larger than nominal value).
- e. temperatuer coefficient:  $\leq 300\text{ppM}/^\circ\text{C}$ .

### 2.3 Working status for stabilized current

- Output current will be adjusted from 0 to nominal value continually.
- The stabilized degree of voltage  $\leq 0.2\% + 2 \text{ mA}$ .  
The stabilized degree of load  $\leq 0.2\% + 2 \text{ mA}$ .
- Corrugation noise :  $\leq 2 \text{ mA Arms}$ .

### 3. CONTROL PANEL AND INDICATOR

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| 1、 Output voltage display.         | 2、 Power switch.                     |
| 3、 Voltage coarse adjustment.      | 4、 Voltage fine adjustment.          |
| 5、 Output current adjustment.      | 6、 Output negative terminal-(black). |
| 7、 Output positive terminal+(Red). | 8、 9、 5V/OUT.                        |
| 10、 Out current HI/LO.             |                                      |



### 4. USER GUIDE

#### 4.1 Attention items

- AC input :AC input voltage must be  $110\text{V} \pm 10\%$  50~60Hz.

- Do not use this instrument:environment temperature  $> 40^\circ\text{C}$ . Because the cooling fan is located the rear of instrument so it must be kept a distance from wall. Not less 10cm for heat elimination.

#### 4.2 Current limiting set

- Confirm the maximum safe current for supplying ma-chine.
- Jump the terminal 6 and 7 with a wire temporarily.
- Adjust the current knob and make the current to repuirement value.
- Finish to set current value(Overload protect),Do not change the current knob from now.
- Take off the jumper and enter the working status.

#### 4.3 Constant voltage/constant current characteristic:

The characteristic of this series supply power instru-ment is the change of constant voltage and constant current automatically.It can change with the change of load between constant voltage and constant cur-rent automatically.The intersecion between con-stant voltage and constant current is the change point.For example:If the load makes the current working on the way of constant voltage ,so the out-put is a stabilized voltage.When the load increase,the output voltage keep stability till arrive the set cur-rent limiting point.After arriving the set current point the output current keep stability.Output voltage will decrease on a rate with the load increasing.

#### 4.4 Operating way

- Put the power switch to "OFF".
- Confirm the input voltage is 110V.
- Connect the power supply.
- Put the power switch to "ON".
- Adjust "OFF" and "CURRENT" knob to the repuirement voltage value and current value.
- Connect outside load to "+" "-" "terminal".

### 5. MAINTENANEC

#### 5.1 Replace the fuse tube

If the fuse tube burn,this power supply will stop to work .Ordinry do not open the fuse bow except in-strument fault.Find the reason to burn fuse