

# **Model: LT-PC015**

## **15W CO<sub>2</sub> LASER SURGICAL SYSTEM**

# Operation & Service Manual

This manual includes some general warnings that you have to pay special attention to when you operate the system.

Please read this manual carefully and understand thoroughly before you operate this system.

This manual should always accompany the system, and its location must be known to all personnel operating the system.





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# **Safety Guidelines**

**The following information is provided for the correct utilization of CO<sub>2</sub> laser surgical system. The information includes not only the accident protection regulations the products comply with, but also the effective precautions regarding proper use of the products.**

**The safety regulations that PC015 series CO<sub>2</sub> laser surgical system comply with can be grouped under 3 categories**

- 1. Electric safety regulation**
- 2. Laser radiation safety regulation**
- 3. Electromagnetic radiation safety regulation**

**These safety regulations comply with the following standards set by IEC:**

**IEC 60601-1**

**Medical electrical equipment part 1: General requirements for safety**

**IEC 60601-1-2**

**Medical electrical equipment part 1-2: General requirements for basic safety and essential performance –Collateral Standard: Electromagnetic compatibility– Requirements and tests**

**IEC 60601-1-4**

**Medical electrical equipment part 1-4: General requirements for safety– Collateral Standard: Programmable electrical medical systems**

**IEC 60602-2-22**

**Medical electrical equipment Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment**

**IEC 60825-1**

**Safety of laser products Part 1: Equipment classification requirements and user's guide**

**Although PC015 series CO<sub>2</sub> laser surgical systems are designed according to accident prevention regulations, only a proper and careful use can guarantee safety. For effective precautions, please refer to chapter 3.4.7 and 9 in operator's manual.**

**The EMC performance of this system has been evaluated and is in compliance with EN60601-1-2. Better use this system in an environment free of strong electromagnetic field.**





## **Preface**

**The PC015 CO<sub>2</sub> laser surgical system is an intelligent laser treatment instrument. This product is featured by compact structure, beautiful appearance, reliable performance, convenient operation and perfect safety. The technical specifications of the product have achieved the advanced international standard.**

**The instrument can be applied to general surgery, gynecology, otolaryngology, dermatology and cosmetology etc for different treatment such as cutting, vaporizing, cauterizing and solidifying. It can be used in ward and private clinics for its portability and compactness.**

# **WARNING**

**This instrument generates high voltages and laser radiation within the cabinet. Operators must pay much attention to safety during operation. Operation safety instructions are specified in this manual. Any improper use, adjustment or maintenance may cause laser radiation hazards or high-voltage electric shock.**

# Operating Instructions Manual



## **1. Operation principle of the system**

### **1.1. Principle of CO<sub>2</sub> laser surgical system**

The CO<sub>2</sub> laser, with a specific wavelength of 10.6um can be absorbed by human body tissue (no matter what color the skin is) almost by 100%, with the laser slightly passing through the skin. It is the heat and electromagnetic effect of the laser that people use to conduct non-blood or less-blood cutting, cauterizing, gasification and accurate microsurgery. Most optical knives use CO<sub>2</sub> laser source.

### **1.2. System description**

The Pc015 CO<sub>2</sub> laser surgical system is the latest microprocessor- controlled instrument based on a sealed- off CO<sub>2</sub> laser providing up to 15W output power on body tissue. It is easy and safe to operate.

### **1.3. Main cabinet**

- 1.CO<sub>2</sub> laser and compound light source
- 2.Switch source with high voltage and constant current
- 3.Main control panel
- 4.Cooling system
- 5.Footswitch
- 6.Articulated arm

#### **1.3.1 CO<sub>2</sub> laser and compound light source**

Sealed- off laser is selected. The active medium is a mixture of CO<sub>2</sub> and other compound gases. The compound light consists of sealed- off CO<sub>2</sub> laser tube, light intensity detector, diode laser and beam combiner. The beam combiner combines CO<sub>2</sub> laser beam and beam diode laser beam coaxially and guides them into the articulated arm beam delivery system.

#### **1.3.2 Switch source with high voltage and constant current**

The instrument is equipped with a switching- mode power supply which converts input voltage to the high voltage required for laser emission. Compared with traditional source, it has a series of advantages, such as small volume, high efficiency and safety while increasing voltage.

# **Operating Instructions Manual**



### **1.3.3 Main control panel**

The microprocessor-based main panel is used to control all functions by touching the thin film switch. Time and power are displayed digitally, which is clear and accurate.

### **1.3.4 Laser cooling system**

The laser cooling system is a closed circulating loop. The coolant (distilled water or ion water) is circulated by a pump.

### **1.3.5 Footswitch**

A footswitch is used to control laser output. When the footswitch is pressed, the shutter opens and laser emits from the articulated arm.

### **1.3.6 Articulated arm**

The laser beam delivery system consists of light-weight, spring- balanced, 7-joint articulated arm. The working radius of the articulated arm at full extension is 110cm.

# Operating Instructions Manual

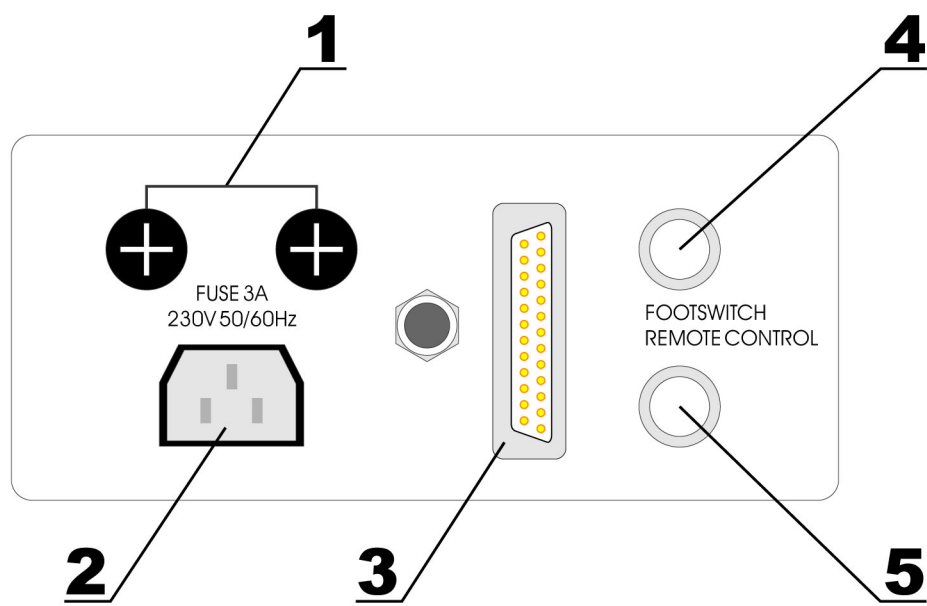


## **2. Name of the components**



Front View

# Operating Instructions Manual



- 1. Fuse Holder    2. Power Socket    3. Scanner Holder**  
**4. Footswitch Socket    5. Remote Control Socket**

Reverse View



# Operating Instructions Manual



## **3. Pre-startup preparations**

### **3.1. Unpacking and inspection**

After unpacking, please check to ensure that the instrument is not seriously damaged, circuit lines are well connected and accessories are available (see accessories list)

### **3.2. Pouring coolant**

Unscrew small screws on the instrument with a screwdriver, which are used to fix the upper cover. Open the upper cover and the cap of the water tank carefully and pour clean water (or distilled or ion water if available) into the tank through a hose till it is full. Then close the cover. Don't open the cover unless for the sake of transportation. When filling water, be sure not to let the water overflow. If water overflows, wipe with dry cloth or dry it with an electric hair-fryer to avoid short circuit or electric shock.

**Never turn on power when the tank is empty.**

**Cooling water must be used with purified water or distilled water**

### **3.3. Checking power voltage**

Ensure that the power voltage complies with the requirement of the instrument. Socket is in working order.

### **3.4. Connecting power cable**

Plug the two terminals of the power cable into the power input socket and the power socket. (Make sure the ground socket is in working order.)

### **3.5. Footswitch connection**

Plug the footswitch cable into the socket on the rear part of the instrument. Push in alignment of the notch until a tone is heard which means a successful lockup.

### **3.6. Temporary start**

After several minutes of trial operation of the instrument, cut off the power supply temporarily.

# Operating Instructions Manual



## **4. Installation. Alignment and operation procedures**

### **4.1 Power On & System Test**

Turn on the key switch to start the machine, then cooling system starts to work, and system testing program starts, it tests cooling system, power supply, laser tube in turn, passed tests will be shown in blue. If all tests are passed, system enters the main menu. (Warning mode will be shown if some test is not passed, see 5.1)



### **4.2 Operating & Setting**

If the scanner is not connected, the screen will be displayed as following after system test, there are four modes to choose, select the one you need.

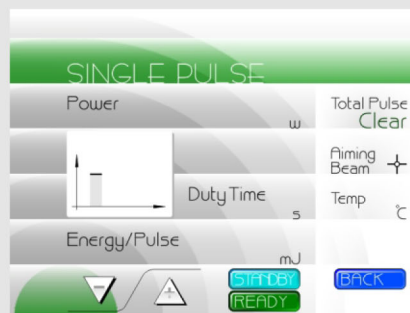


# Operating Instructions Manual



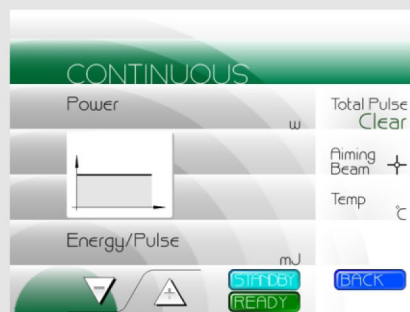
## I. Single Pulse

Press "SINGLE PULSE" on the main menu and enter into "SINGLE PULSE" Setting Menu, Press "Power" button and the power value (like 0.5w) will turn blue, then press "+" or "-" to adjust power to that you need. The laser pulse will output once each time you press the footswitch.



## II. Continuous

Press "CONTINUOUS" on the main menu and enter into "Continuous" Setting Menu, Press "Power" button and the power value (like 0.5w) will turn blue, then press "+" or "-" to adjust power to that you need. The laser beam will output continuously when pressing the footswitch.



# Operating Instructions Manual



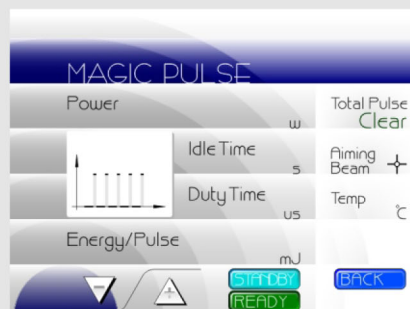
## III. Repeat Pulse

Press “REPEAT PULSE” on the main menu and enter into “Repeat Pulse” Setting Menu, Press “Power” button and the power value (like 0.5w) will turn blue, then press “+” or “-” to adjust power to that you need. The same manner to adjust “Idle Time” and “Duty Time”. The laser beam will output continuously when pressing the footswitch.



## IV. Magic Pulse

Press “MAGIC PULSE” on the main menu and enter into “Magic Pulse” Setting Menu, Press “Power” button and the power value (like 0.5w) will turn blue, then press “+” or “-” to adjust power to that you need. The same manner to adjust “Idle Time” and “Duty Time”. The laser beam will output continuously when pressing the footswitch.



# Operating Instructions Manual



## 4.3 Laser Beam Outputting

After the parameter is setting like chapter 4.2, press "Ready" button and make the system to ready status, then the laser beam will output after you press the foot switch.

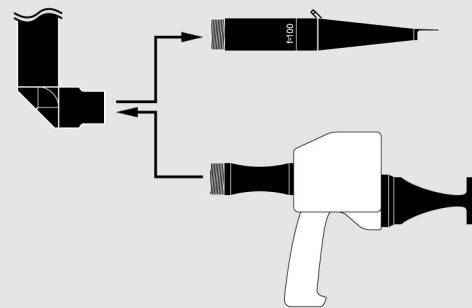
## 4.4 Scanner

Installation(Please power off the system before doing the following steps.)

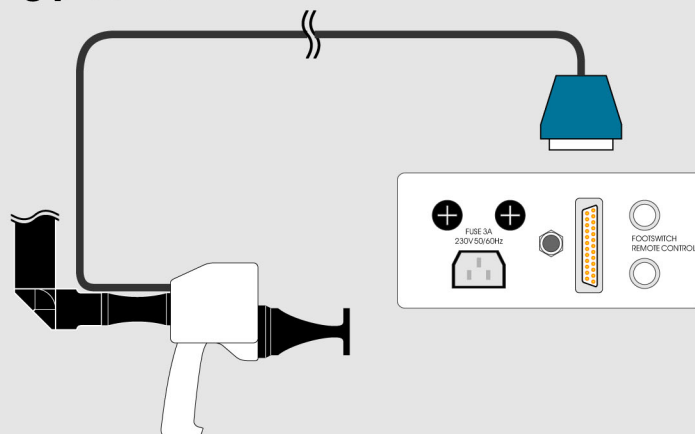
### 4.4.1 Installation

Take-down the focus handpiece kit from the articulated arm, install the scanner onto the articulated arm, the details is:

Connecting the input beam port of scanner to output beam port of articulated arm.



Connecting the 25 pin port of scanner to the 25 pin port on the backside of body according to the following picture.



# Operating Instructions Manual



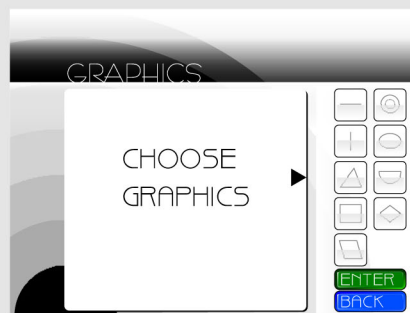
## 4.4.2 Fractional Mode

If the scanner is connected, the screen will be displayed as following after system test.



## 4.4.3 Graphic Selection

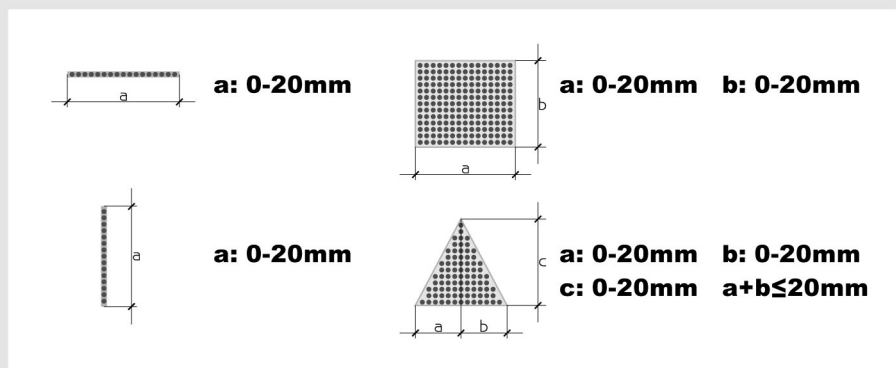
Press Graphics in fractional mode and enter graphic menu.



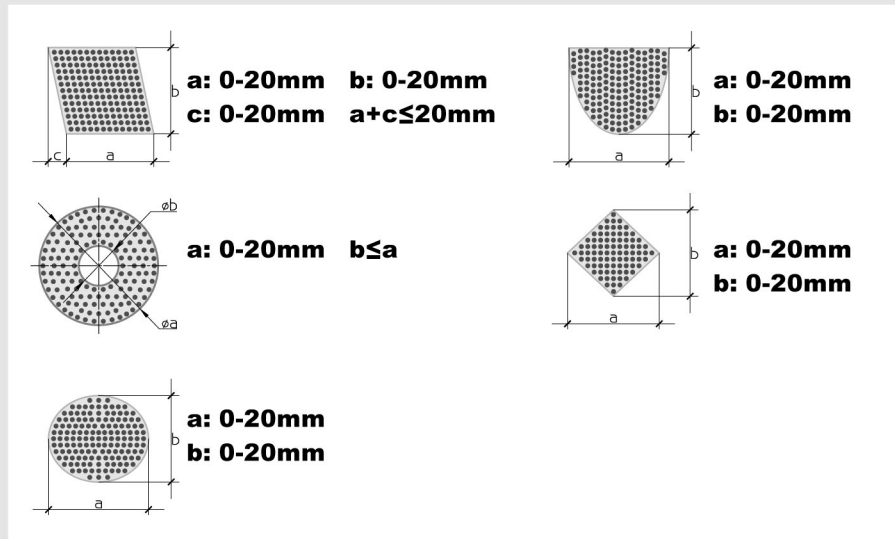
Select the shape you want on the right side, there're transverse line, vertical line, triangle, rectangular, Parallelogram, circle, ellipse, half ellipse, rhombus altogether nine shapes to be chose.

## 4.4.4 Figure Specification Setting

Selecting the related figure specification, press "+" or "-" for plus or minus( a. b. c. could be adjusted from 0mm to 20mm.)



# Operating Instructions Manual



When selecting the figure according to your request, the aiming diode will draw the outline of the treatment figure. Then pressing “Enter” to turn back to Fractional menu and the aiming diode will stop to show the outline of figure.

## 4.4.5 To Set Interval

When laser emitting, the space between 2 spot could be adjusted by pressing “+” or “-” from 0.1mm to 2mm. Point/Area calculates amount of spots according to certain shape and interval.

## 4.4.6 To Set Scan Mode

To set scan mode, press Mode A or Mode B in fractional mode.

**Mode A:** Sequence scan, the shape is scanned out in sequence.

**Mode B:** Discrete scan, the shape is scanned out randomly.

## 4.4.7 Laser specification Setting

In Fractional mode, press “Power” button and the power value (like 0.5w) will turn blue, then press “+” or “-” to adjust power to that you need. The same manner to adjust “Idle Time” and “Duty Time”. The laser beam will output continuously when pressing the footswitch.

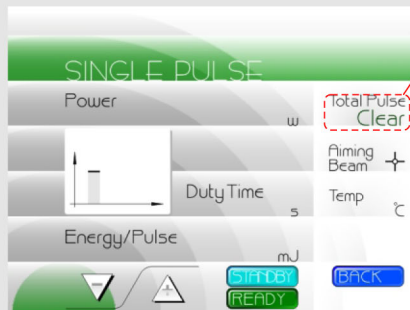
After setting of power and related specification on “FRACTIONAL” menu, press “Ready”, then press foot switch for treatment.

# Operating Instructions Manual

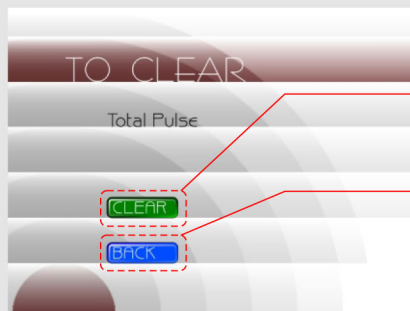


## 4.5 Clear

The working time can be cleared like the following:  
For Instance: on “Single Pulse Setting Menu”



Press “Clear” button to “Clear” menu

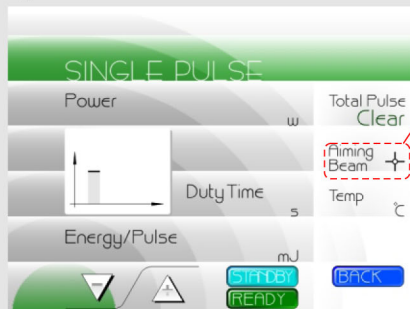


Then press “Clear” to zero

Press “Back” to “SINGLE PULSE”.

## 4.6.1 Additional Adjustment

Both aiming beam can be adjusted on each mode setting menu.



Press “Aiming Beam” Button and press “+” or “-” to adjust broghtness.

## 4.6.2 Temperature Display

Temperature of cooling water is shown at Temp, if it exceeds 40°C the number will turn red, system will automatically shut down if it exceeds 45°C.



# Operating Instructions Manual



## **5. Protection and Alarm**

### **5.1 Warning**

Under any circumstance, if any of cooling system, power supply, laser tube get out of order, warning mode will be shown, and the error part will be shown in red.

### **5.2 Indication of coolant circulation**

When the water pump begins to work shortly after the power is turned on, the coolant doesn't circulate normally, with the indicator flashing and the buzzer beeping. After the coolant circulates normally and the warning device, which will alarm in case of no water, is connected, the alarm stops beeping.

### **5.3 Overheat protection**

Prevent the instrument from being overheated: when the temperature of the circulating water is higher than 40°C, the indicator will flash and the buzzer will beep. Before normal operation is restored, cut off power supply and wait till the temperature of cooling water goes down below 25°C. Then restart the instrument. In case of the two aforesaid alarming states, if the footswitch is pressed, laser will not emit.

# **Operating Instructions Manual**



## **6. Pilot beam**

**In view of the invisibility of the 10.6um CO<sub>2</sub> laser, a visible red diode laser emitting coaxially with CO<sub>2</sub> laser is provided to help the operator locate laser beam conveniently. Press the key, the red light emit, and a green indicator flashes. Press the key again, the red light stops emitting, and the green indicator extinguishes.**

# Operating Instructions Manual



## 7. Precautions

- 7.1** Never let the laser beam be directed to human eyes or healthy skin.
- 7.2** To prevent human eyes or skin from being hurt by the reflection of laser light, never allow the laser beam, be directed to any smooth reflective surface, such as stainless steel device surface, mirror surface, etc.
- 7.3** If 75% alcohol is used to clean or sterilize relevant part of the instrument, don't use the instrument till the alcohol vaporizes. Never operate the instrument in the presence of flammable anesthetics.
- 7.4** In order to prevent the focus lens of the handpiece from being polluted and to keep a clear view of the surgical area, a smoke evacuator is recommended to the operator. The handpiece and focus lens must be cleaned every 3 months.
- 7.5** The laser beam generated by this instrument is hazardous to eyes in the area within 35m from the instrument (when someone is staring directly at the laser) operators must use safety eyewears when operating.
- 7.6** This instrument generates high voltages inside. No attempt should be made by non-professional to open the cabinet of the instrument to avoid electric shock risk.
- 7.7** If the instrument gives out abnormal smell or sound, stop operation at once. Cut off the power first before any inspection.
- The laser tube is made of glass. Handle with care to avoid damage.**

# **Operating Instructions Manual**



- 7.8**                      **Keep the instrument in an environment with the temperature between 1°C~50°C and the relative humidity between 10%~80%.**
- 7.9**                      **Empty the water tank before transportation to prevent the laser tube from being frozen to break.**
- 7.10**                     **Don't leave around laser tube and the instrument recklessly when their service lives end. Recycle according to the local environment protection regulations.**
- 7.11**                     **To avoid improper use of the instrument, remove the key from the keyswitch and keep it properly when the instrument is not in use. The instrument generates high voltages within the power supply and laser tube. Please refer to professional personnel for maintenance to avoid electric shock.**
- 7.12**                     **Operation room should be equipped with a dust or fume exhauster, because the dust arising during operations may be mixed with biological tissue particles.**

# Operating Instructions Manual



## **8. Maintenance**

**The instrument generates high voltages within power supply and laser tube. Refer to professional personnel for maintenance to avoid electric shock.**

### **8.2 Lens cleaning**

**The output power may drop slightly after the instrument has been put into use for half a year. This may be caused by the stained focus lens of the handpiece. Wipe the lens gently with moistened cotton ball once or twice. Be sure not to damage the lens.**

### **8.3 Cabinet cleaning**

**If there is dirt on the cabinet, wipe gently with moistened cotton cloth and some detergent or toothpaste. Don't use over-wet cloth in case the water leaks into the inner part of the instrument, causing short circuit and damage. Please refer to chapter 9 for precautions.**

### **8.4 Power calibration**

**The practical laser output power and the preset panel power must be calibrated each year with standard laser power meter within validity period by trained professional personnel.**

### **8.5 Fuse replacement**

**Open the fuse holder with a screwdriver and remove the original fuse. Before replacement, check and ensure the new fuse is identical in type and specification to the original one (5A) to avoid damage arising from unfit fuses.**

### **8.6 Handpiece sterilization**

**Handpiece must be sterilized after use. Refer to chapter 8.3 for details.**

# Operating Instructions Manual



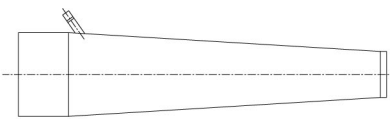
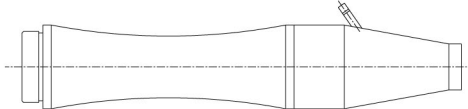
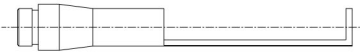
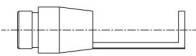

## 9. Accessories

<b>Operator's manual and service manual</b>	<b>1copy</b>
<b>Articulated arm</b>	<b>1pc</b>
<b>Power cable</b>	<b>1pc</b>
<b>Footswitch</b>	<b>1pc</b>
<b>Interlock key</b>	<b>2pcs</b>
<b>Fuse</b>	<b>2pcs(spare parts)</b>
<b>(Connecting wires recommended: 0.15*23)</b>	
<b>handpieces (see table below)</b>	

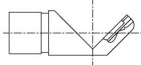
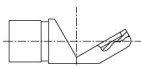



# Operating Instructions Manual



## Standard Handpieces

DWG NO.	FIGURE
JH-DT-01	
JH-DT-02	
JH-DT-03	
JH-DT-04	
JH-DT-05	

## Handpieces By Customer Order

DWG NO.	FIGURE
JH-DT-06	
JH-DT-07	
JH-DT-08	
JH-DT-09	
JH-DT-10	

**For each use. Please clean and sterilize the handpiece by 75% surgical alcohol.**

**Notice: The surgical alcohol must be volatized before use.**



# Service Manual

## 10. Troubleshooting Guide

Please refer to professional personnel for maintenance

<b>SYMPTOMS</b>	<b>POSSIBLE CAUSES</b>	<b>ACTIONS</b>
After the main power is on, the panel does not light, the water pump does not work either, (when the water pump works, there are slight vibration and sound.)	The power plug has not been property plugged. The emergency stop switch is pressed down.	Check the two plugs at the two ends of the power cable. Replug properly turn the red mushroom-shaped button of the emergency key in the indicated direction to have the emergency key connected.
No laser beam emits out though the instrument seems running normally.	The plug of the footswitch is not properly inserted. The setting of the control panel isn't suitable. When the instrument is used for the first time, after water is filled the cover is not closed tightly. The interlock keys are not pressed down. The joint of the articulated arm is loosened.	Insert the plug of footswitch tightly according to operator's manual. Set the panel again according to operator's manual. Close the cover and press the interlock keys. Screw the joint tightly.
No laser emits. The instrument alarms.	The instrument has been working for too long and the coolant is too hot.	Stop running the instrument. Wait till the temperature of the cooling water goes down below 25°C, then restart the instrument.
The instrument makes big noise when running	The instrument is not Well- balanced.	Place the instrument on a stable and flat surface.
Red pilot beam doesn't converge or doesn't emit from the end of the tube. CO <sub>2</sub> laser is off the center.	The articulated arm is either damaged inside or not working normally. No laser emits or output power drops significantly.	Refer to professional personnel for service.





# ***Service Manual***

**Note: Operators are not allowed to adjust the components listed below:**

**Laser tube, articulated arm, diode pilot beam, microprocessor board.**



# Service Manual

## 11. Technical Specification

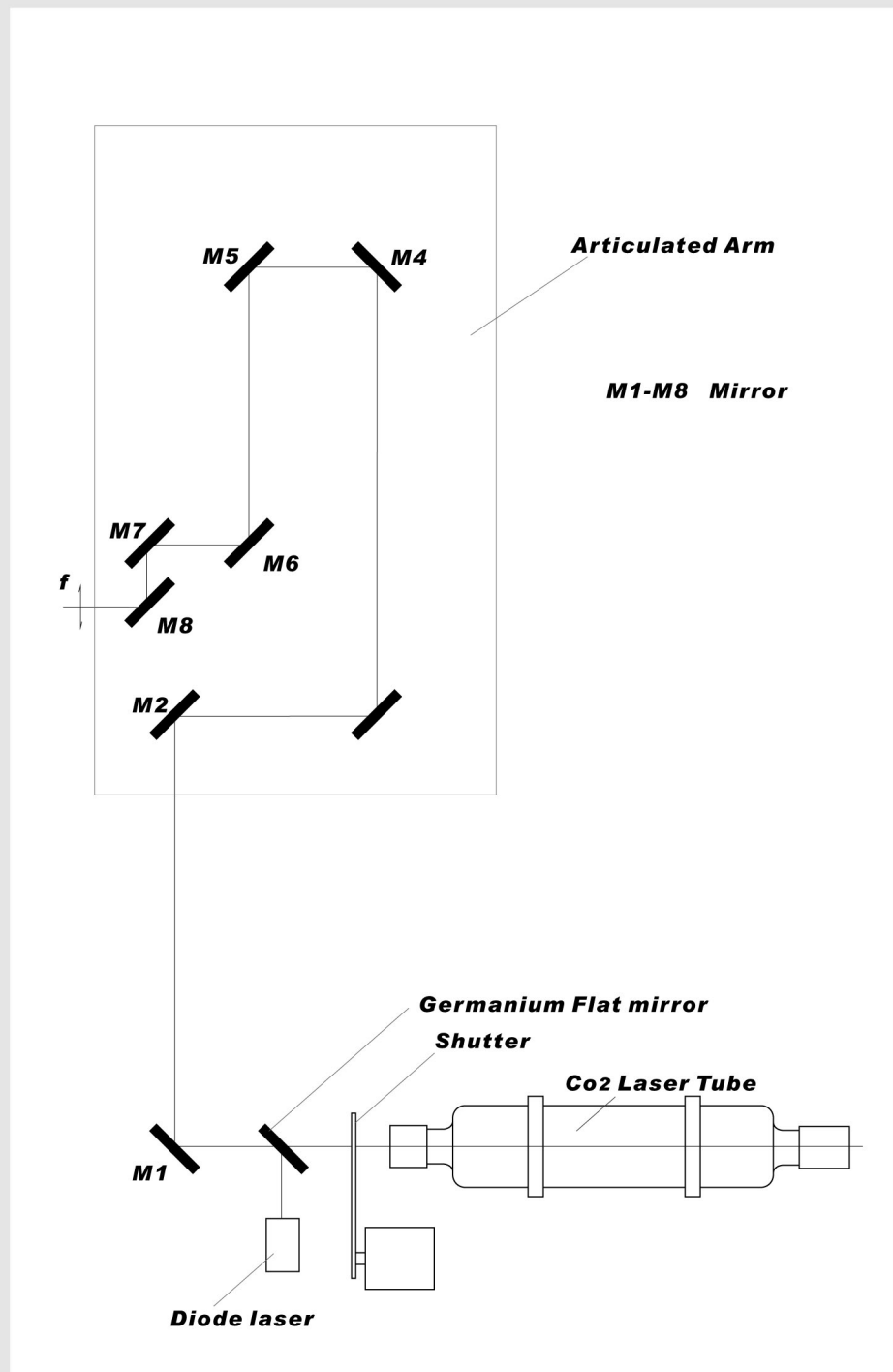
<b>Laser Type</b>	<b>Sealed off CO<sub>2</sub> laser</b>
<b>Laser Wavelength:</b>	<b>10.6 microns</b>
<b>Laser Mode:</b>	<b>Low-valance mode</b>
<b>Output Power:</b>	<b>0~15W. cont adjustable</b>
<b>Focus Spot Diameter:</b>	<b>0.4mm</b>
<b>Divergence:</b>	<b>4mrad</b>
<b>Lens Focal Distance:</b>	<b>F=100mm</b>
<b>Power Instability:</b>	<b>± 10%</b>
<b>Delivery System:</b>	<b>Spring-balanced 7-joint articulated arm</b>
<b>Operation and control:</b>	<b>Touching switch Microprocessor- controlled</b>
<b>Working Modes:</b>	<b>Continuous, single pulse, repeat pulse and Super Pulse</b>
<b>Pulse Duration:</b>	<b>0.05~1s</b>
<b>Display:</b>	<b>LCD display</b>
<b>Cooling System:</b>	<b>Closed loop circulating water</b>
<b>Power Supply:</b>	<b>~230V, 50Hz (see supply circulating water)</b>
<b>Input Power:</b>	<b>450VA</b>
<b>Environment Temperature:</b>	<b>5~40°C</b>
<b>Relative Humidity:</b>	<b>&lt;80%</b>
<b>temperature in transit</b>	<b>-40~50°C</b>
<b>Humidity in transit</b>	<b>&lt;85%</b>
<b>Gross weight(kg)</b>	<b>50kg</b>
<b>Atomospheric pressure:</b>	<b>86.0kpa~106.0kpa</b>
<b>Warning up time:</b>	<b>5min</b>
<b>Electromagnetic requirement:</b>	<b>No electromagnetic Field interference</b>
<b>Other working conditions:</b>	<b>No obvious vibration or airflow</b>

***Specifications subject to change without notice***



# Service Manual

## 12. System schematics





# **Service Manual**

## **13. Warranty & Service**

**The instrument is a well designed, user friendly laser surgical system with high quality. It performs perfectly under normal use and maintenance. Within a year from the date of purchasing, any damage caused by manufacturing or components defects can enjoy free repairing service.**

**Such service is valid only if the instrument is properly used. Any damage cause by improper use of the instrument, such as using unfitted power supply and wrong accessories, operating in a manner other than specified in this operators manual, damages caused by transportation, accidents unauthorized installation or maintenance, etc, such free service will be invalid immediately. The free service does not include accessories transportation free and door-to-door service charge of professional personnel.**

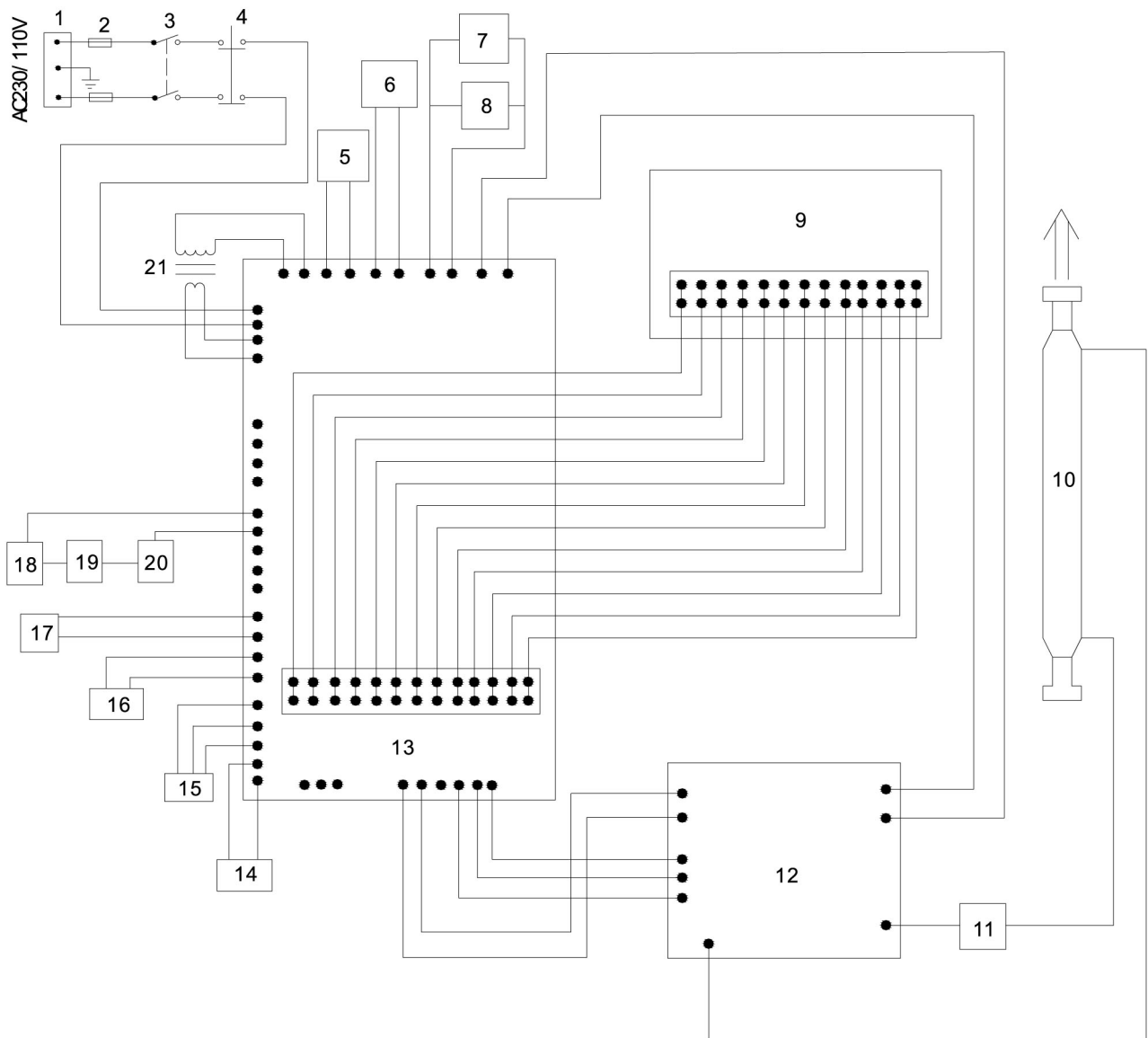


# Service Manual

## 14. Warnings, Identification & Labels

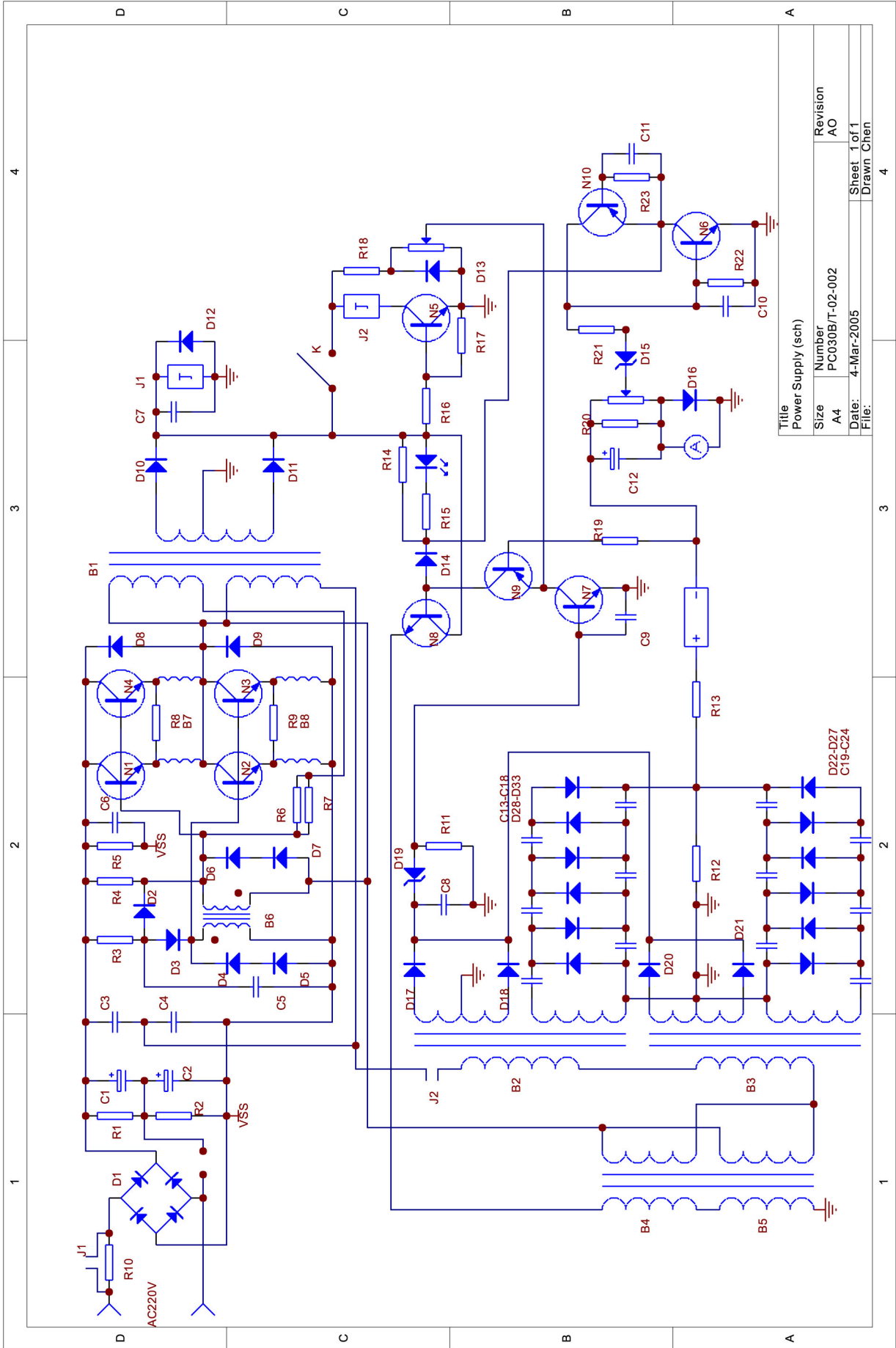
### Label Explanations

No	Symbol	Definition
Label 1		<b>NOTICE! PLEASE SEE ACCOMPANYING DOCUMENTS</b>
Label 2		<b>TYPE B APPLIED PART</b>
Label 3		<b>PROTECTIVELY EARTH</b>
Label 4		<b>DANGEROUS VOLTAGE</b>
Label 5		<b>DOOR INTERLOCK SWITCH WARNING</b>
Label 6		<b>WARNING LABEL HAZARD SYMBOL</b>
Label 7		<b>LASER APEKTURE</b>
Label 8		<b>FUSE</b>
Label 9	Remote Control	<b>REMOTE CONTROL PLUG</b>
Label 10	Footswitch	<b>FOOTSWITCH PLUG</b>
Label 11		<b>WARNING AND EXPLANATORY LABEL</b>
Label 12		<b>MANUFACTURER AND PRODUCT INFORMATION</b>
Label 13		<b>EMERGENCY STOP</b>
Label 14		<b>KEY SWITCH</b>



- 1.Power switch    2.Fuse    3.2801 Key switch    4.Emergency stop    5.Air pump  
 6.Water pump    7.9025 Fan    8.2040 Fan    9.Computer control board    10.Laser tube  
 11.Resistance bolck    12.Power supply    13.Computer control board power supply  
 14.Temperature sensor    15.Flow sensor    16.Diode aiming beam  
 17.Electric motor    18.Foot switch    19.Remote    20.Interlock    21.Transformer

Title Electrical Schematic		
Size A4	Number PC030B/T-02-001	Revision AO
Date: 3-May-2004	Sheet 1 of 1	
File:	Drawn Chen	



Title		Power Supply (sch)	
Size	Number	Revision	AO
A4	PC0308/T-02-002	Date:	4-Mar-2005
File:	4-Mar-2005	Sheet	1 of 1
		Drawn	Chen

4

3

2

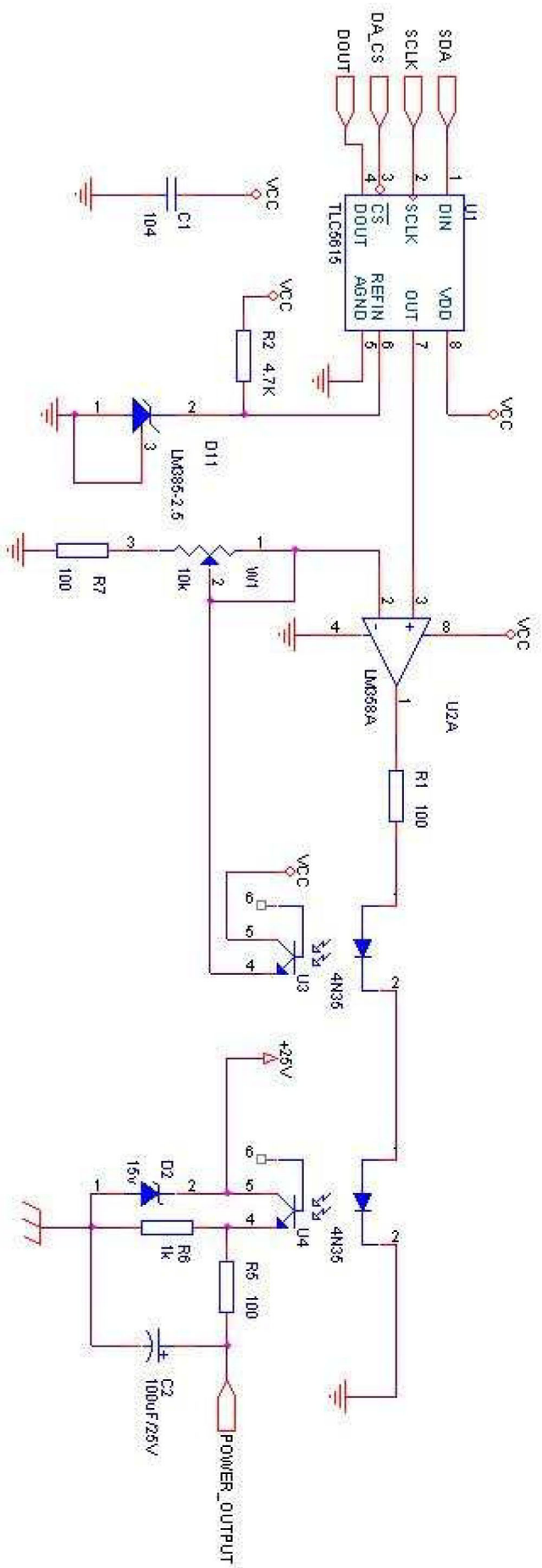
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4

3

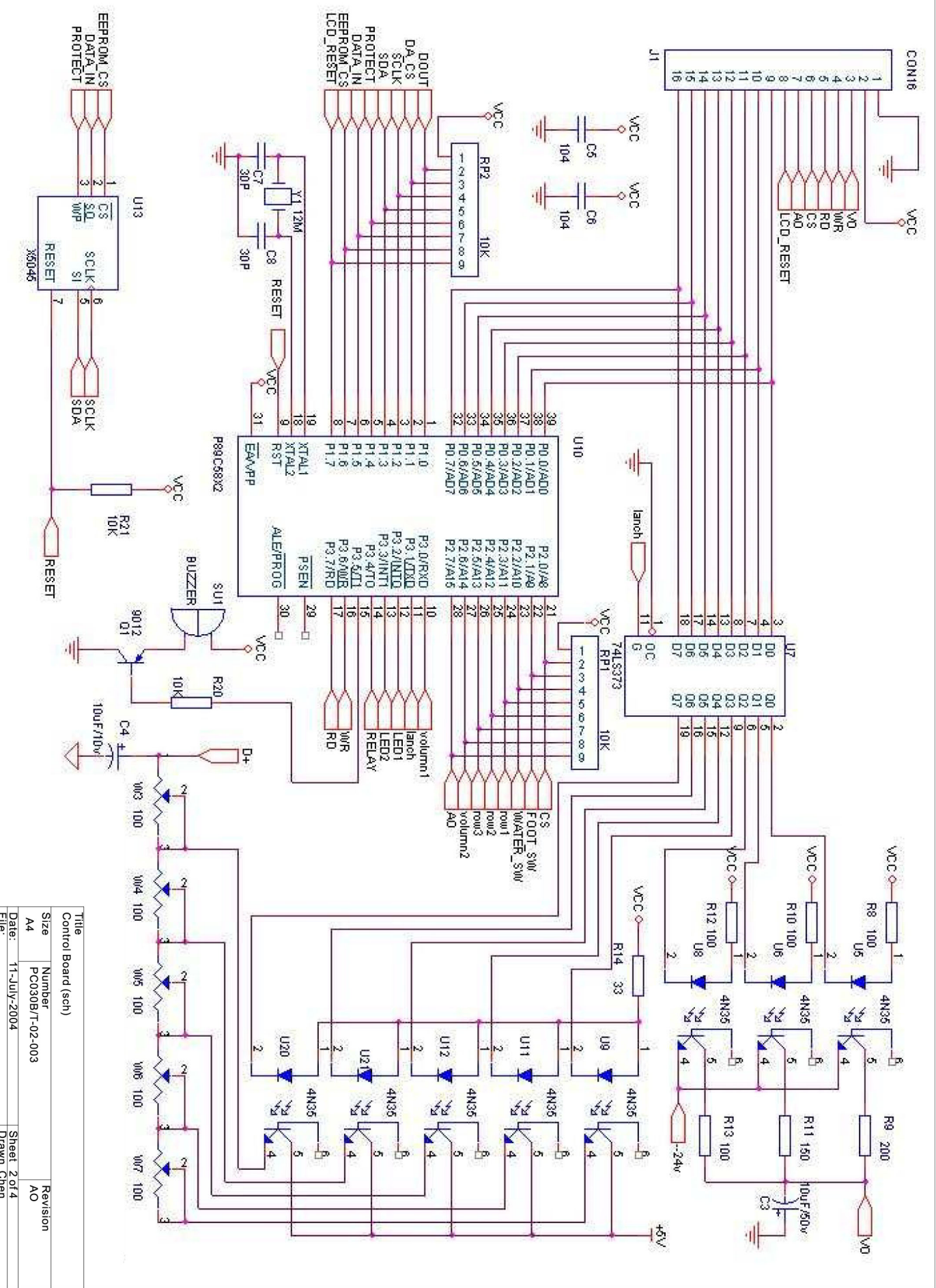
2

1

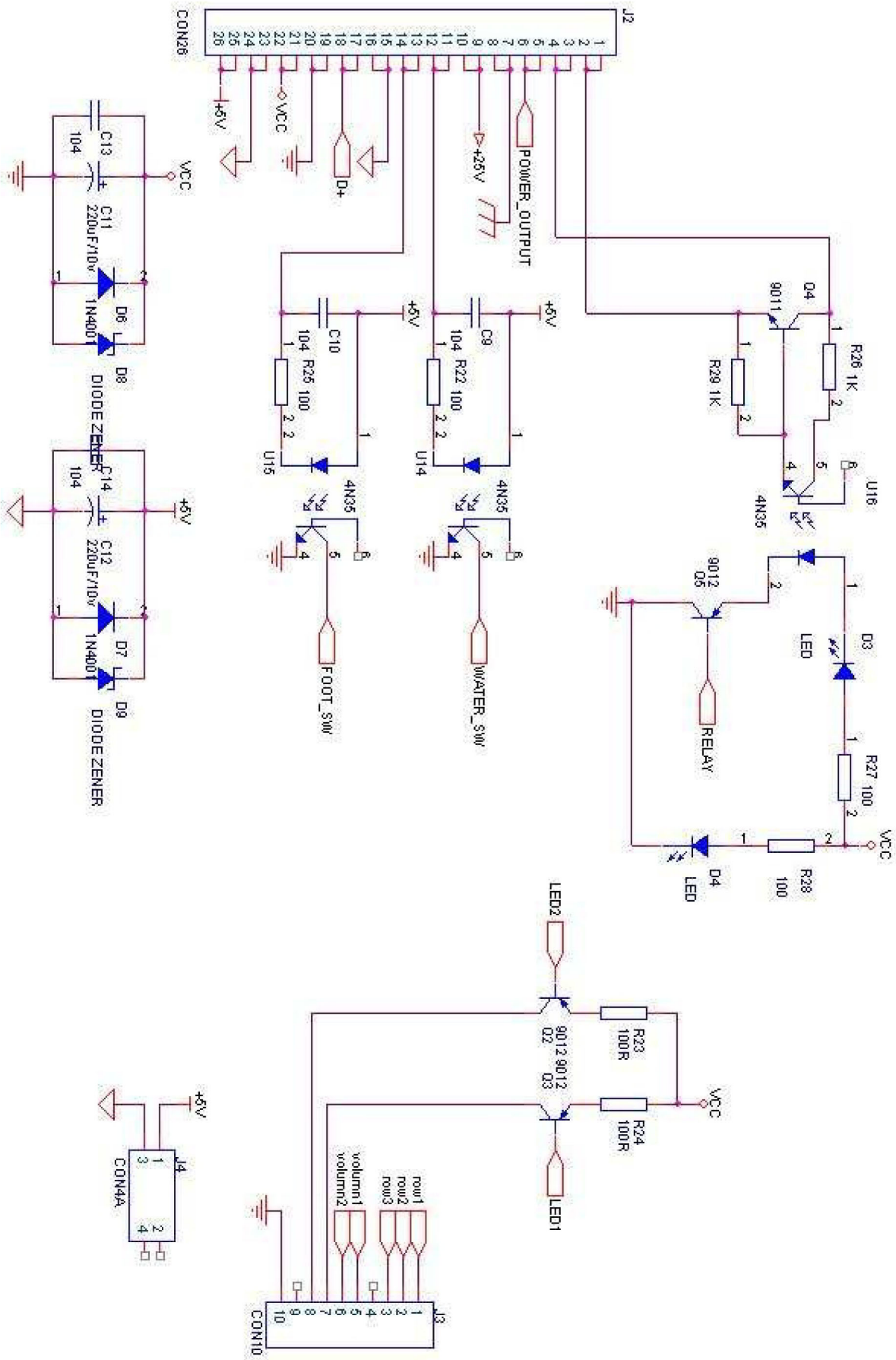


Title		Control Board (sch)	
Size	Number	Revision	
A4	PC030B/T-02-003	AO	
Date:	11-July-2004	Sheet 1 of 4	
File:		Drawn Chen	





Title		Control Board (sch)	
Size	Number	Revision	
A4	PC0308/T-02-003	AO	
Date:	11-Julv-2004	Sheet	2 of 4
File:		Drawn	Chen



Title  
Control Board (sch)

Size Number  
A4 PC0308/T-02-003

Date: 11-July-2004

Revision  
AO  
Sheet 3 of 4  
Drawn Chen





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