



金鷹®

GOLD EAGLE

DL-7 MINI TYPE ELECTRIC  
STEAM BOILER WITH STEAM IRON

# Instruction Manual

## Foreword

Thank you for your purchase of Gold Eagle DL-7 mini type electric steam boiler with steam iron .

The Instruction Manual is necessary for your correct operation of the machine. Be sure to read carefully the instruction manual and fully understand its contents before you start to use the machine. Please carefully keep this instruction manual for future necessary reference.

## Requirements and Precautions

1. Proper operation and regular maintenance of the iron are indispensable in order to use it safely in a long time. Before starting any maintenance, please read the general precautions in this manual carefully and fully understand the contents. In addition, please consult our company in case the machine is to be used for other purpose.
2. Please attach this Instruction Manual to the machine in case of resale or tenancy of the machine. In addition, the Instruction Manual will be available upon your application to our company in case your Instruction Manual is lost.
3. In the Instruction Manual, "Warning" symbol appears next to a point that may cause fatal accident or conflagration if users do not observe; "Caution" symbol appears to a point that may cause mechanical damage or malfunction, or personal injury if users do not observe.
4. Our company will not take any responsibility for any application of operation methods which are not included in the Instruction Manual, or for the cases of nonobservance of the indications of "Warning" or "Caution".

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## 1. Technical parameters

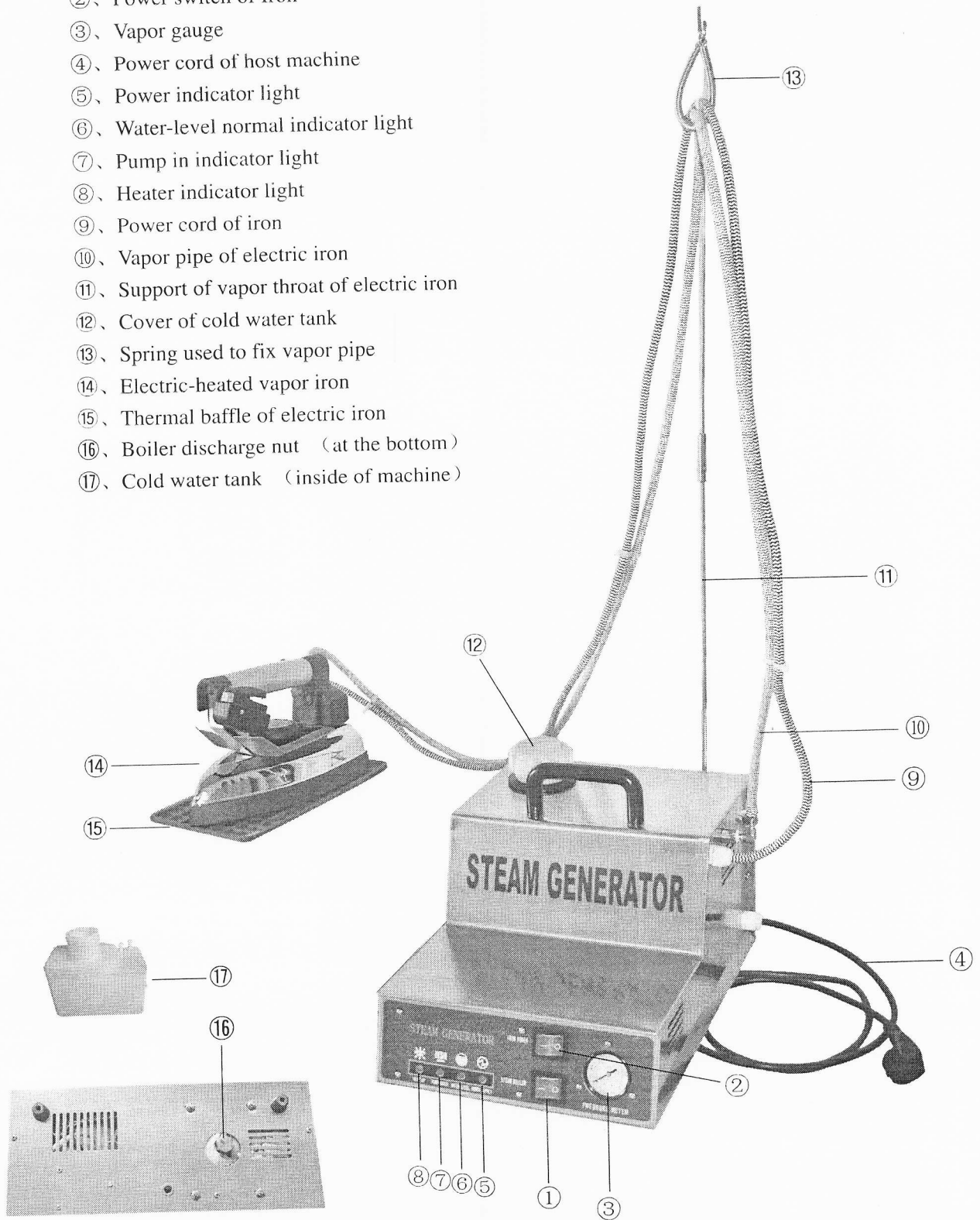
Model Number	DL-7
Maximum working pressure(Mpa)	0.3
Voltage rating	AC 220V Single-phase
Power	2.3KW (including iron)
Rated current	10.5A
Vapor volume	2.4 ( kg/h )
Size of host machine	37×26×26CM
Weight of complete machine	8.5kg

## 2. Accessories

- ①、1 water jug for adding water (2.5L)
- ②、1 set of electric-heated vapor iron
- ③、1 set of supporting frame for vapor throat of iron
- ④、1 Instruction Manual




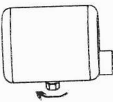

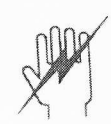



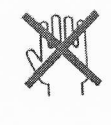



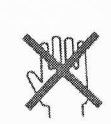



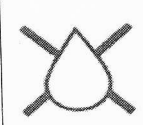

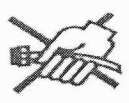

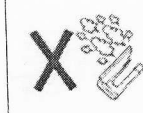

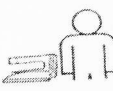






### 3. Names of exterior parts of the machine.

- ①、 Power switch of Boiler
- ②、 Power switch of Iron
- ③、 Vapor gauge
- ④、 Power cord of host machine
- ⑤、 Power indicator light
- ⑥、 Water-level normal indicator light
- ⑦、 Pump in indicator light
- ⑧、 Heater indicator light
- ⑨、 Power cord of iron
- ⑩、 Vapor pipe of electric iron
- ⑪、 Support of vapor throat of electric iron
- ⑫、 Cover of cold water tank
- ⑬、 Spring used to fix vapor pipe
- ⑭、 Electric-heated vapor iron
- ⑮、 Thermal baffle of electric iron
- ⑯、 Boiler discharge nut (at the bottom)
- ⑰、 Cold water tank (inside of machine)



## 4. Particular Precautions before operation

General "Warning" and "Caution"

Warning			Please do not use the iron while the machine casing is opened. Otherwise there may cause electric shock or short-circuit!	Warning			If the valves such as boiler nut are opened carelessly, it would cause serious accident. Please operate the draining nut at the boiler properly by referring to the Operation Manual.
Warning			General electric power supply must be cut off before taking down cover plates, or performing maintenance for electric or wiring parts. Otherwise, it may cause electric shock accidents.	Warning			Do not put volatile matters, such as volatile oil or inflammable matter on top of mechanical body. Otherwise it may cause fire hazard.
Warning			High temperature will be generated near vapor valve and draining valve of case body. It may cause major accident of scald if those parts are touched with naked hands.	Warning			The iron set has already be fully adjusted before delivery. Do not disassemble or rebuild the iron set. Otherwise, false operation, accident or malfunction may be caused.
Warning			Please adjust pressure to 0MPa when troubleshooting or maintenance is made on tubing parts, then wait for cooling of all tubing parts temperature before any operation. Otherwise it may cause danger of scald.	Caution			Unplug power cord immediately when it thunders. Otherwise, it may cause malfunction of power distribution parts.
Warning			Do not sprinkle water on main body of the iron, especially on electric or wiring parts. Otherwise it may cause hazards of electric shock or short-circuit, resulting of malfunction.	Caution			Do not drag or pull power cord or other electric wires. Otherwise it may cause short circuit or malfunction.
Warning			Do not release vapor aiming at people. In addition, do not perform ironing clothes which are pull on by people.	Warning			Do not go away from an iron with electric power on. Electric power must be cut off when going away from an iron.
Warning			Do not put near an iron any inflammable matter or oils, or drugs, or do not perform any ironing operation near them.	Caution			The iron itself has very high temperature. Please do not touch the parts with hands except of iron handle or thermal baffle.
Caution			Please put the iron on iron-setting table firmly in order to avoid dropping off. In addition, take care not to tilt the main body of the iron set. Otherwise it may damage the iron set or cause personnel injury.				

## 5. Installation/assembling methods

( 1 ) Put the machine on horizontal ground surface.

### (Caution)

If put the machine in a tilting place, water level can not be normally detected. As a result, water feeding and heater can not be controlled, causing operation problem, even malfunction.

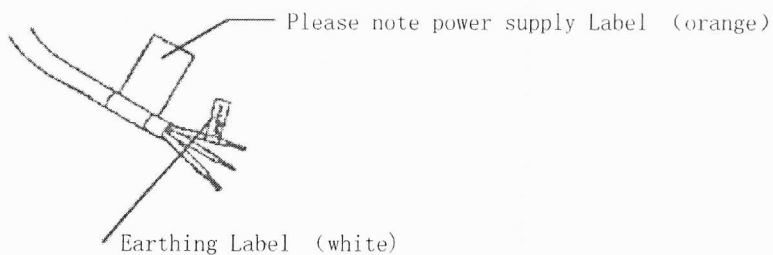
( 2 ) Connection of power supply

220V, Power supply must be plugged into the receptacle of 15A.

### (Warning)

Do not use row sockets as electric receptacles. Otherwise, it may cause fire hazard because row sockets or power cord may become very hot.

• There is a lead at end of the power cord. Prepare a plug matching with specifications of this machine, and connect the plug with breaker of electric leakage.



### (Caution)

Regarding power supply of this machine, please refer to the column of Specifications (Page 1). Connect to the power supply according to rated voltage and capacity of this machine. In addition, be sure to connect the ground. The grounding wire must be connected to ground plate.

(Warning) If the ground connection is not performed, you may run a high risk of receiving a serious electric shock.

( 3 ) Assembling electric-heated vapor iron

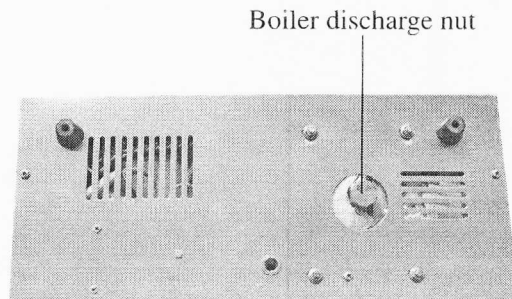
Please refer to the Name Diagram of Exterior Parts of the Machine (P-2) for assembling of bearing rod and electric iron.

( 4 ) Put the electric iron on the thermal baffle of the iron.

## 6 Methods of application

### 6.1 Preparations before application

(1) Water must be discharged every day before starting the machine. The draining device is at the bottom (see Fig. below). Unscrew away there will be copper nut. After completing drainage procedure, lock in the copper nut.



( Warning )

1. Drainage must be done every day. If not, scale deposit or scale incrustation may be generated inside the case body or heater, which may cause all sorts of malfunctions.
2. The water drained off must not be reused. Direct drain it off because there mixed lots of impurity in the water drained off, which may cause malfunction.

( Warning )

Please take adequate care when draining water because the temperature of the water or vapor drained off will be around 100°C. In addition, the temperature of the draining valve itself will be around 100°C. Do not touch the draining valve with naked hands. Otherwise you may be scalded.

( Warning )

Don't open draining valve when vapor pressure has risen. Otherwise, boiled water may be sprayed out to hurt you.

(2)、Put water in the tank in a right amount (maximum capacity of the water tank is 1.5 liters).

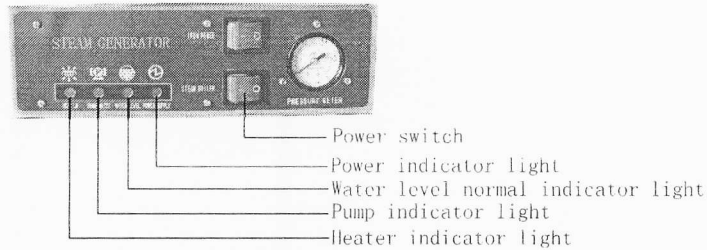
( Caution )

Please use water after water soft treatment for this machine.

(3) Connect to the general power supply

Insert the plug into the receptacle.

## 6.2 Methods of application Operating panel



- (1) Turn on the Power Switch of Boiler and Iron in the operation Panel.
- (2) After power is turned on, the following procedures will be followed automatically.
  - ① Water pump indicator light illuminate. The water pump starts operating and feeding water to the case body for 2-3 minutes, then stops.
  - ② Water Level normal indicator light illuminates. Heater is powered on. After 3-5 minutes, vapor pressure is up to 3Mpa, and is in a operationally effective status. Regarding pressure indication, please refer to Names of Exterior Parts of the Machine (Page 2 of this Manual).
  - ③ During operation, Water Level Normal Indication Light, Water Pump Indicator Light and Heater Indicator Light will illuminate and go out repeatedly.
  - ④ If the water level in the case body is lowered down, the water pump indicator light will illuminate. Water will be fed to the case body automatically.
  - ⑤ The machine can alarm automatically if there is a lack of water in the cold water tank. Please add water into the tank promptly.

( Warning )

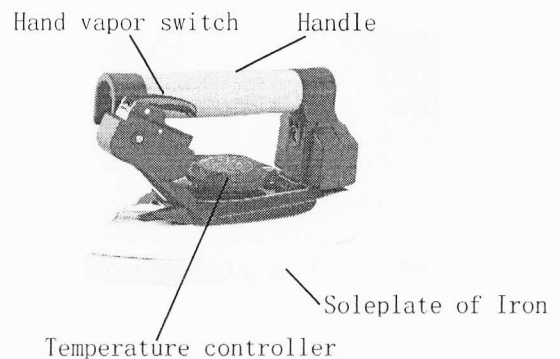
Please contact with our company if vapor is sprayed out from safety valve inside of the machine. Perform troubleshooting after vapor pressures is lowered to 0MPa.

( Warning )

Cut off the electric power before moving the machine, then gently and slowly move the machine. Otherwise, it may cause sprinkling from the water box.

## 6.3 Method of application of the electric iron

Turn on the temperature controller of electric iron, and select an ideal temperature grade for ironing. If the hand vapor switch of the electric iron is pressed down, vapor will be sprayed out from the soleplate of the iron. Vapor can be sprayed out only when the hand switch is pushed down. If you release your hand from the hand vapor switch, vapor spraying will stop.



( Warning )

Spray vapor toward safe directions, such as floor before use the machine. Make sure that there is not any water drop being sprayed out before use.

( Warning )

The temperature of the soleplate of iron is very high. Do not touch it. Otherwise, you will be scalded.

( Caution )

Put the electric iron on the thermal baffle when the iron is not be used. Please be fully aware that dropping down of the iron may cause personnel injury or malfunction.

## 6.4 Procedures at end of operation

Cut off electric power after end of operation. The general power supply must be cut off. Pull out the plug from the receptacle.

## 7. Maintenance and troubleshooting

( Warning )

Cut off the general power supply and totally discharge off vapor, drain off water when no vapor can be sprayed before perform maintenance or troubleshooting.

### 7.1 Daily maintenance work and troubleshooting

#### (1) Daily maintenance

- ① Drainage of case body must be done before daily operation.
- ② Please clean dirt and dust around the main mechanical body of the machine.

#### (2) Monthly maintenance and troubleshooting

Clean filter of the water feeding inlet inside of the water tank. Water tank may become dirty due to the dust or dirt coming inside, which may cause abnormal water feeding of pump. Clean the water tank by using ironing brush.

Plastic filter screen should be adopted for replacement other than copper or iron screen, which may be oxidated and rusted, resulting of internal jam.

### 7.2 No operation for a long time

- (1) Cut off power supply.
- (2) Drain off water from the case body and water tank.

## 8 Fault handling methods

Please contact with our company or agent who sells the machine in case any problem happens on this machine.

( Warning )

The general power supply must be cut off and vapor pressure must be lowered to 0MPa when performing troubleshooting

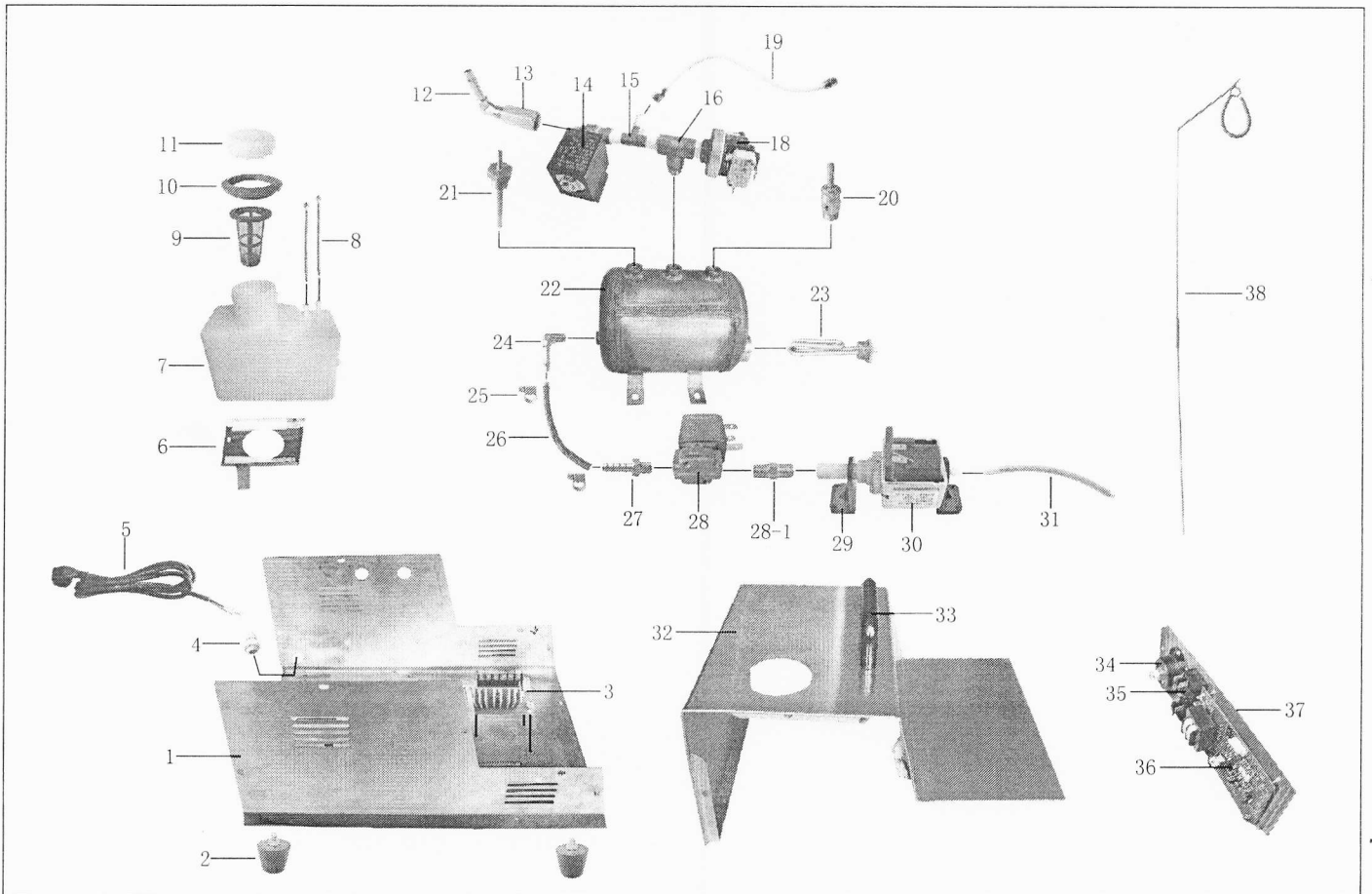
## 9. Precautions

- ① Any misapplication or poor management of boiler furnace may cause major accident. Maintenance work must be done well.
- ② If any abnormal symptom occurs, please cut off general power supply, then find out the reason. In case no cause can be found, please contact our company.
- ③ Cut off the general power supply, or cut off the general breaker, or pull out the plug from receptacle immediately in case the following symptoms occur. Please contact our company. Discharge all vapor and avoid to be scalded when perform troubleshooting yourself.
  - Vapor is sprayed out from safety valve.
  - There is vapor leakage inside of the mechanical parts.
  - There is smoke in the machine.
  - There is water under the machine.
  - There is abnormal sound.
  - There is abnormal offensive odor.
  - Electricity leaking breaker shut down automatically.
  - Water discharged does not come out, or water drainage is not smooth.
  - Other abnormal events occur.
- ④ Perform machine maintenance in order to use it safely in a long time. Timely replace damaged or aged parts. Clear away scale deposit in time. Find out the cause for minor leak and fix it.
- ⑤ Service life period of the machine  
The regular service life of the machine is about 7 years under the conditions of suitable maintenance, (soft water is used and 8 hours and 5 days per week).  
If operation frequency is higher, (over 8 hours per day and 7 days per week), its service life should be about 5 years.
- ⑥ Cut off the general breaker, or pull out the plug from the receptacle when the machine is not used.
- ⑦ Perform case body drainage of water every day.
- ⑧ If soft water can not be used, blockage may occur due to the scale deposit. Please contact our company in case any abnormal status occurs.  
Please pay more attention if the water quality is not good (such as well water).



# DL-7 ELECTRIC STEAM BOILER

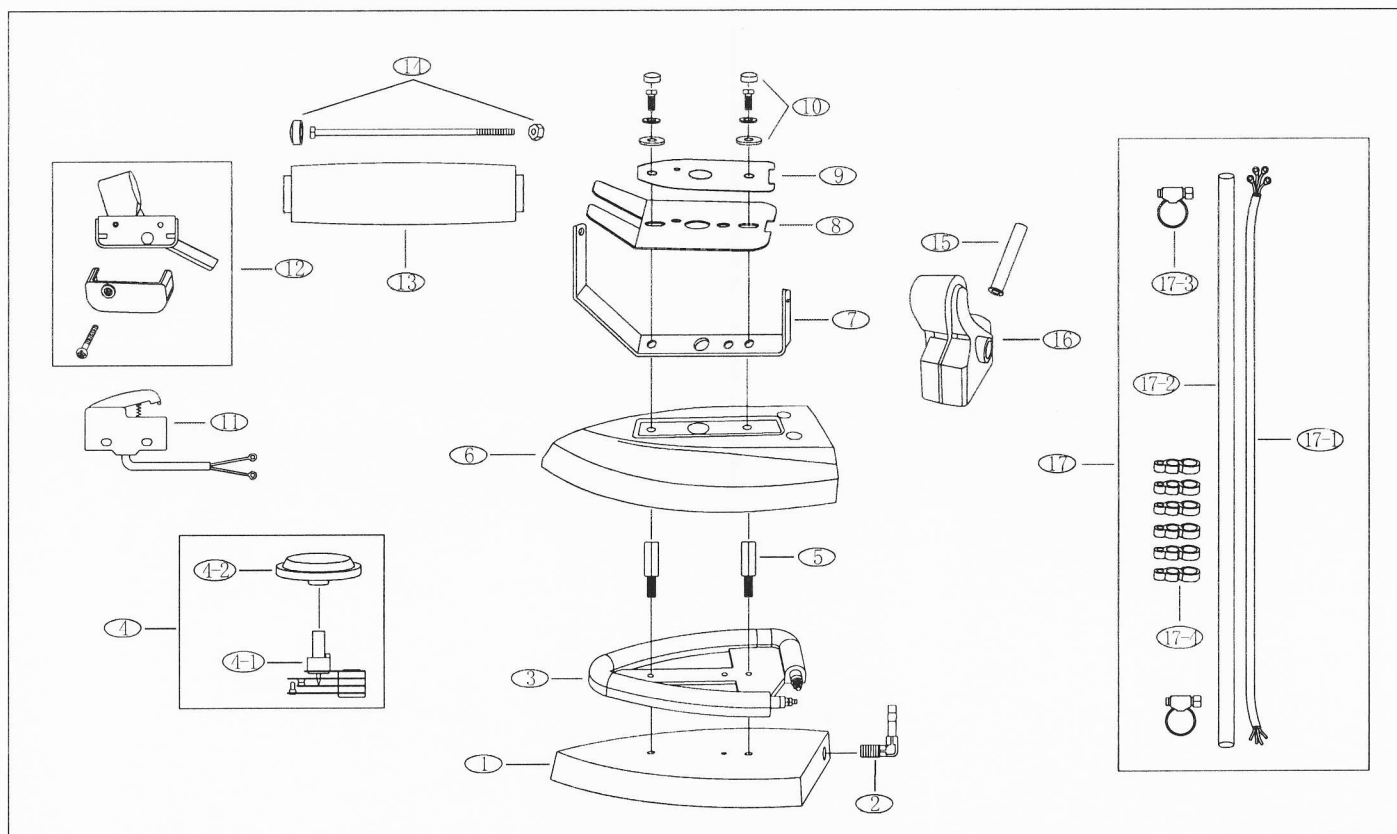
## Disassembled View



### **PARTS LIST OF DL-7**

1	Master base	14	Evaporation solenoid valve	28	Water inflow solenoid valve
2	Stand bar of Master base	15	Tee-joint with external threads	28-1	The outside thread connector
3	Control panel of heater	16	Three-way of "T" shape	29	Pump seat
4	Wire clamp	18	Pressure controller	30	Water pump
5	Power cord	19	Manometre tube	31	Silicone tube and sprung
6	Bracket of water tank	20	Relief valve	32	Master subpanel cover
7	Water tank	21	Internal furnace water Level probe	33	Handle
8	Water Level probe of tank	22	Stainless steel Internal furnace	34	Pressure gauge
9	Filter	23	Electroheat Tube	35	Switch
10	Waterproof rubber band	24	Water inlet pipe adapter	36	Computer controlling panel
11	Water tank cover	25	Water inlet pipe fastening ring	37	Panel
12	Steam joint	26	Inlet water hose	38	Bracket Components
13	Copper joinder	27	Water inflow straight beak		

## DISASSEMBLED VIEW OF DL-85TN IRON



### **PARTS LIST**

PART NO.	NAME	PART NO.	NAME
1	Soleplate of iron	11	Vapor switch
2	Vapor inlet nozzle	12	Fixation seat components for vapor switch
3	Heater of iron	13	Handle of iron
4	Thermostat components	14	Handle connecting screw rod
4-1	Thermostat	15	Power cable jacket
4-2	Thermostat knob	16	Junction box components
5	Hex bolt	17	Power cable, steam tube components
6	Ferrous outer shell	17-1	Power cable of four-core (2.4M)
7	Ferrous support	17-2	Steam tube (2.4M)
8	Thermal baffle	17-3	Steam tube fastening ring
9	Aluminum card indicating temperature	17-4	Plastic buttons of "S" shape
10	Fix screw components for iron support		

# Wiring Diagram of the Machine

