

Instruction Manual



FY-3WH

Our equipment is approved by the following car manufacturers (China)



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Preface

Please read this instruction manual carefully before using and the equipment and refer to it as needed to ensure the continued safe operation of the equipment.

- ▲ This instruction manual should be read completely before attempting to use or service the equipment.
- ▲ Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.

▲ The following warnings and important notices are used in the instruction manual:

	Improper use of this equipment can cause serious or fatal injury		WARNING Improper use of this equipment can cause personal injury or property damage
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DANGER

Improper use of this equipment can cause serious or fatal injury



- ◆ Magnetic fields can affect pacemakers. Pacemaker wearers keep away from the equipment. Wearers should consult their doctor before going near equipment operations.



- ◆ Do not touch any live electrical parts. Wear dry, hole-free insulating gloves and body protection. The input power circuit and machine internal circuit are live with high voltage when power is on. Touching live electrical parts can cause fatal shocks or severe burns. High voltage exists in the power supply socket. Never touch the conductor terminals with bare hand.



- ◆ Input power installation must meet national standard. All electrical connections must be made by a qualified electrician. Insulated gloves and shoes must be worn when connecting input power or maintaining equipment.



- ◆ Never disassemble, repair, alter or rebuild the equipment without approval from the manufacturer. There is a risk for electrical shock and fire.

- ◆ Make sure the supply cable is up to national standard or local code. Use only the right gauge of electrical wire/cable. There is a risk of fire or electrical shock if overload building wiring—be sure power supply system is properly sized, rated and protected to handle this unit.



- ◆ Electric shock can kill. Properly ground this equipment according to its user manual and national standard.



- ◆ Replace power cord/wire/cable immediately—bare wiring can kill.
- ◆ Do not step on, twist or pull the power cord..
- ◆ Frequently inspect input power cord and regularly clean the unit to remove dust and dirt. Any worn or damaged power cord or internal components in heavy dust may cause electrical shock, short circuit or fire.



- ◆ In the event of abnormal, operation must be immediately stopped. If smoke, smell or abnormal noise is produced by the unit, disconnect the power cord immediately and contact your local dealer. Do not use it until the problem is fixed.



- ◆ Do not operate or place the device near water or in wet locations. Risk for electrical shock or damage to the device.



- ◆ Do not operate the equipment in potential hazardous areas : chemicals, oil, gas and mining, or the worksites where power supply system is in poor condition.



- ◆ Use only well-maintained device. Inspect and maintain the device for safety every 12 months, including cleaning and removing dust. Repair or replace damaged parts/cables at once.



- ◆ Follow the installation and operation instruction to ensure user safety and proper equipment performance. It is the responsibility of the owner to ensure that the equipment has been installed and operated as specified in the instructions provided. The manufacturer takes no responsibility for any loss or damage suffered as a result of using the equipment incorrectly or improperly.



WARNING

Improper use of this equipment can cause personal injury or property property damage

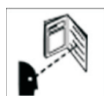


The equipment is designed for curing paint only. Do not use the equipment for other purposes. This may cause fire or electrical shock.



Never place any materials/objects on top of the equipment to avoid fire and electrical shock.

Do not locate equipment on, over, or near combustibles.



Read instruction manual before using equipment. Use only the spare parts supplied or approved by manufacturer.



Follow the installation and operation instruction to ensure user safety and proper equipment performance. It is the responsibility of the owner to ensure that the equipment has been installed and operated as specified in the instructions provided. The manufacturer takes no responsibility for any loss or damage suffered as a result of using the equipment incorrectly or improperly.

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NOTE

- ◆ The equipment must be used by qualified personnel familiar with electronic equipment.
- ◆ Do not place the equipment on unstable or uneven ground. The equipment might fall causing injuries and damage to the equipment.
 - During operation process, the equipment should keep a distance about 10cm from the wall to keep air way clear.
- < Avoid using the equipment in the environments with high humidity (above 90%), high temperature (above 40°C), low temperature (below 5°C), high frequency source nearby, chemical and drug, water vapor for condensation, dust or vibration.
- ◆ Make sure the facility supply voltage and frequency are the same as shown on name plate. The supply cable must be properly sized and rated.
- ◆ The connection between the main power supply and the equipment should be as short as possible.
- ◆ Use a dry cloth to clean the dirt on the equipment.
- ◆ Do not forget to take back all repair tools/objects inside the equipment after repair/ maintenance, such as screws, bolts or nuts. The left out metallic objects inside the equipment can cause damage to the equipment.
- ◆ Follow the instructions of this user manual to operate the equipment.
- < We have made installation and operation quick and easy. Please operate the buttons and switches gently with your hands, only one button each time. The sensitive control circuit will be damaged if pressing the buttons with a hard and sharp thing such as screw driver and, pen.
- <
- ◆ Turn off all equipment when not in use.
- < Follow the installation and operation instruction to ensure user safety and proper equipment performance. It is the responsibility of the owner to ensure that the equipment has been installed and operated as specified in the instructions provided. The manufacturer takes no responsibility for any loss or damage suffered as a result of using the equipment incorrectly or improperly.

1. Precaution

1. Read this manual carefully before installing or servicing this equipment.
2. This equipment is designed for paint drying applications. Adjust to the correct temperature and check minimum safe distance from heat source when using. Improper use can cause paint surface damage.
3. Installation and servicing must be performed by a qualified technician or service agency.
4. The system has been designed for easy installation, low operating cost and minimum maintenance. The warranty does not cover lamp tube defects resulting from misuse or improper operation.
5. Disconnect power source when the equipment is not in use for a long period.
6. The lamp tube should not be perpendicular to the ground when the equipment is in operation. Otherwise, it will shorten the service life of the lamp tube.

2. Specifications

Model	FY-3WH
Input Power Source	Single Phase 220V 50/60Hz
Input Power (W)	3 × 1000
Curing Area (mm)	1200 × 1000
Temperature (°C)	35 - 80
Time Setting	0 - 99mins Adjustable
Light Intensity (%)	10 - 100

3. Installation

The shortwave infrared curing lamp is divided into 3 parts (a base, a column and a cassette).

1) Installation of the base.

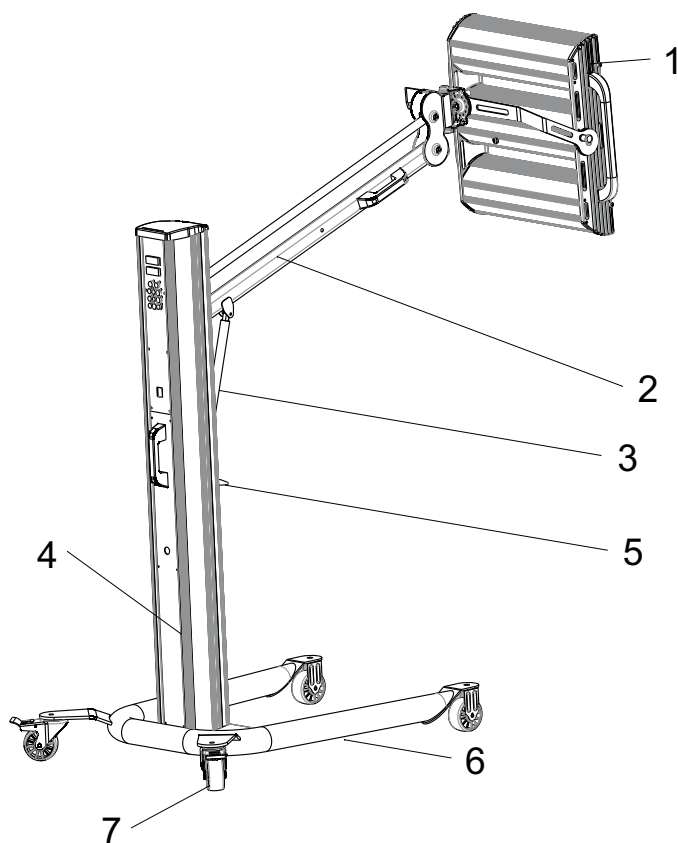
- a. Open the packing of the base.
- b. Install the four wheels on the base respectively and tighten up the screws. Usually, the wheels with brakes should be mounted on the rear of the base.

2) Installation of the column.

- a. Open the packing of the column.
- b. Put the column vertically on the top of the base, directly engage the screw holes and tighten up using the screws.
- c. Connect the support arm with the column for supporting cassette.
- d. Connect the lifter with the column to control the up and down movement of cassette.

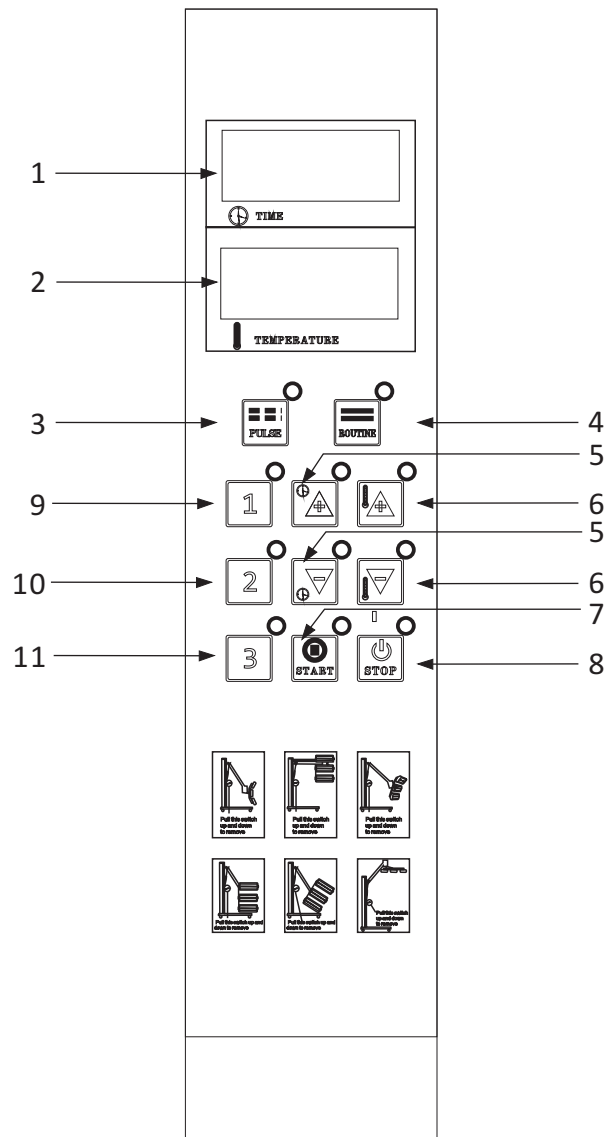
3) Installation of the cassette.

- a. Open the packing of the cassette with care.
- b. Connect cassette with support arm and tighten up with the screws.
- c. Connect control wires and adjust the angle of cassette.



1. Cassette
2. Connecting rod
3. Lifter
4. Column
5. Lifter handle
6. Base
7. Wheel

4. Controls



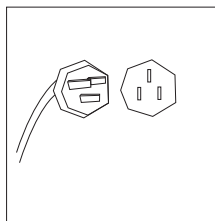
1. Time Display
2. Temperature Display
3. Pulse Paint Curing
4. Routine Paint Curing
5. Time Adjustment
6. Temperature Adjustment
7. Start
8. Stop
9. Lamp 1 Selector
10. Lamp 2 Selector
11. Lamp 3 Selector

5. Operation

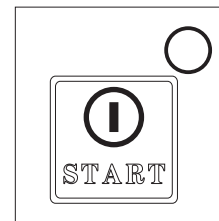
1. Connect input power cord (should be no less than 4mm² copper cord).
2. Turn on the machine, digital displays will show figures.
3. Select "Routine" or "Pulse".
4. Set temperature and time according to the requirements of paint being cured. The display will show data. Pulse curing helps to achieve more lustrous results.
5. To achieve the best curing result, the lamp should be parallel with the paint surface.
6. Adjust the distance from heat source to the paint surface. Usually, a distance of 30-50cm is best.
7. When paint curing, the paint surface must be clean, without water and impurities.
8. Turn off the equipment after using. Place the equipment in a safe place to avoid damage to the lamp tube.



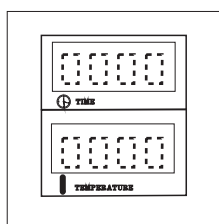
Install machine



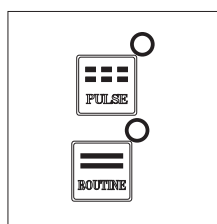
Connect input power



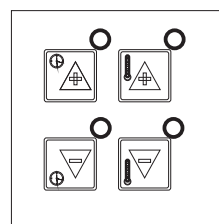
Switch on



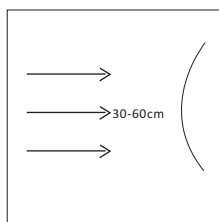
Digital display data



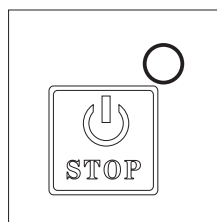
Select "Pulse" or
"Routine"



Set "Temperature"
and "Time"



Keep heat source parallel
to paint surface a distance
of 30-60cm



Switch off the machine
after curing

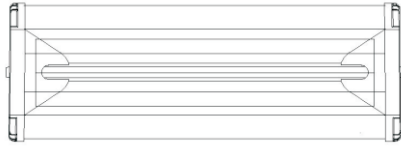
6. Troubleshooting

1. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Lamp tube does not work	1) Lamp tube damaged 2) Lamp tube not plugged in 3) Control silicon damaged	1) Check lamp tube 2) Check connections 3) Check control silicon
Lamp tube does not turn off	1) Control silicon damaged	1) Check control silicon
Digital display is blank or is incomplete	1) Unplugged flat wire in circuit board 2) Digital display is damaged	1) Check flat wire 2) Check digital display
Time and temperature cannot be adjusted	1) Switch imbalance 2) Keyboard has exclusion	1) Check the installation of switch 2) Check keyboard exclusion

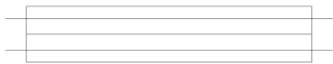
6. Troubleshooting

2. Lamp Tube Replacement



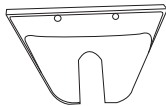
(1)

1. Prepare cassette for replacement



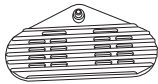
(2)

2. Remove the grille of cassette



(3)

3. Remove the plates from both ends of the cassette



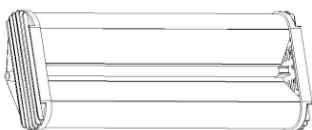
(4)

4. Remove the fixed plates from both ends of the cassette



(5)

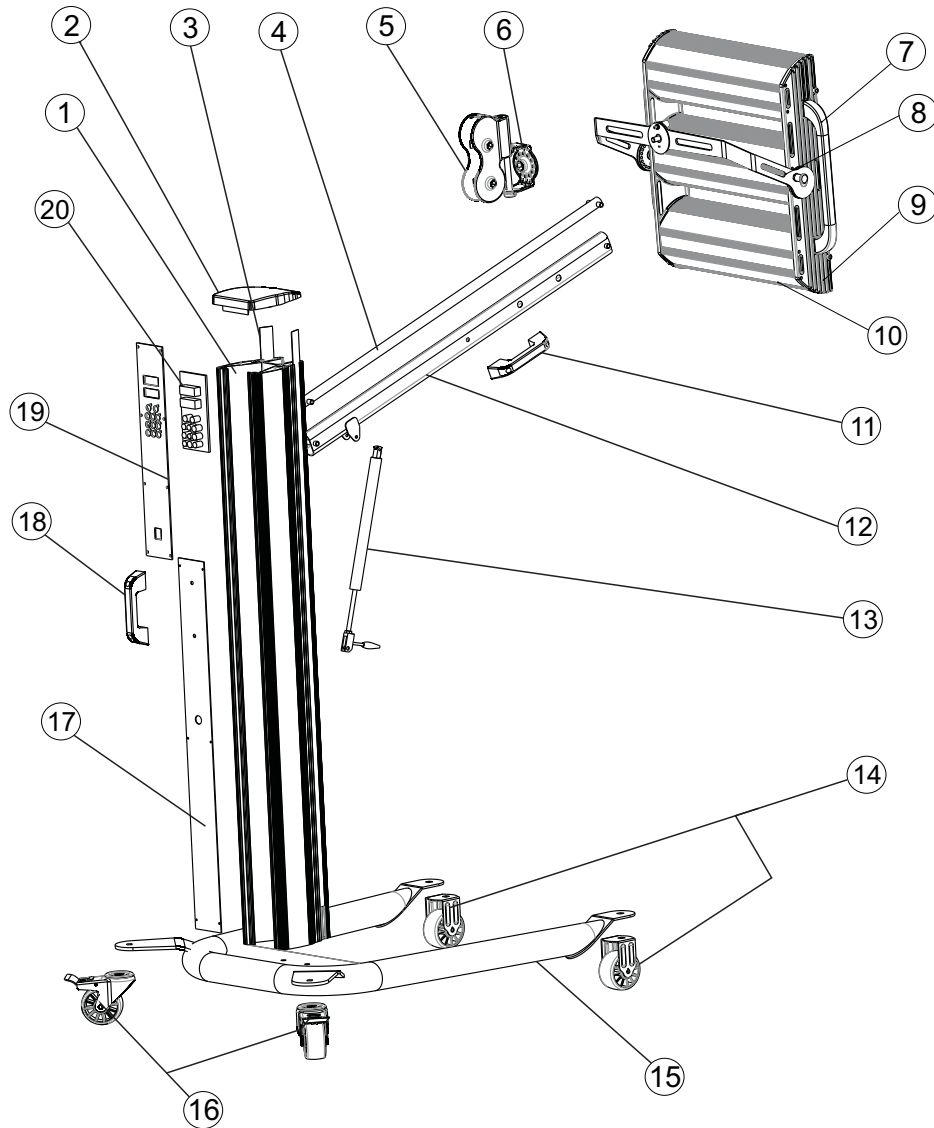
5. Loosen fixed screws and cut off connections, the lamp can be replaced



(6)

6. Reverse the steps above to install the new lamp

7. Exploded View



NO	NAME	NO	NAME	NO	NAME	NO	NAME
1	Column	6	Adjustable hand wheel	11	Plastic handle	16	Back wheel
2	Top cover	7	Aluminium handle	12	Lower connecting rod	17	Cover plate (lower)
3	Plastic band	8	Clamping bar	13	Lifter	18	Handle
4	Upper connecting rod	9	Side panel	14	Front wheel	19	Cover plate (upper)
5	Connector	10	Cassette	15	U-type base	20	Circuit board

8. Circuit Diagram

