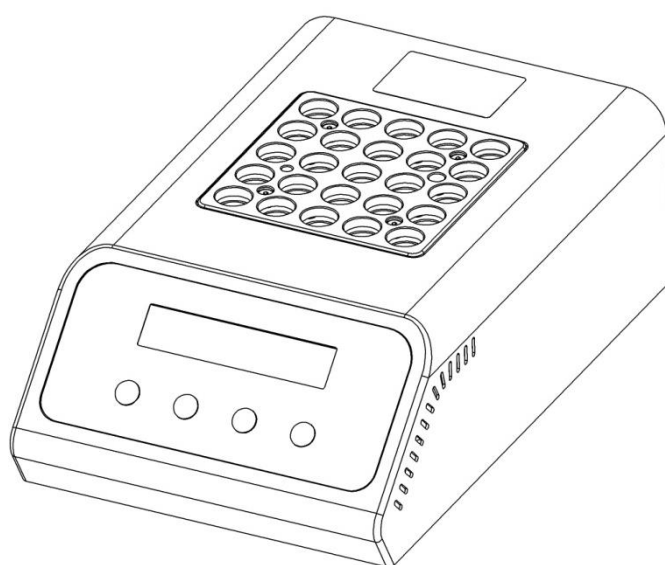


Service Manual

COD Reactor

Model No.

CR 25



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Instruction

Important notice before troubleshooting:

1. Ensure the power cord is plugged into power outlet securely.
2. Ensure the on/off switch is turned on.
3. Ensure the power supply specifications are applicable before plugging in the power cord.

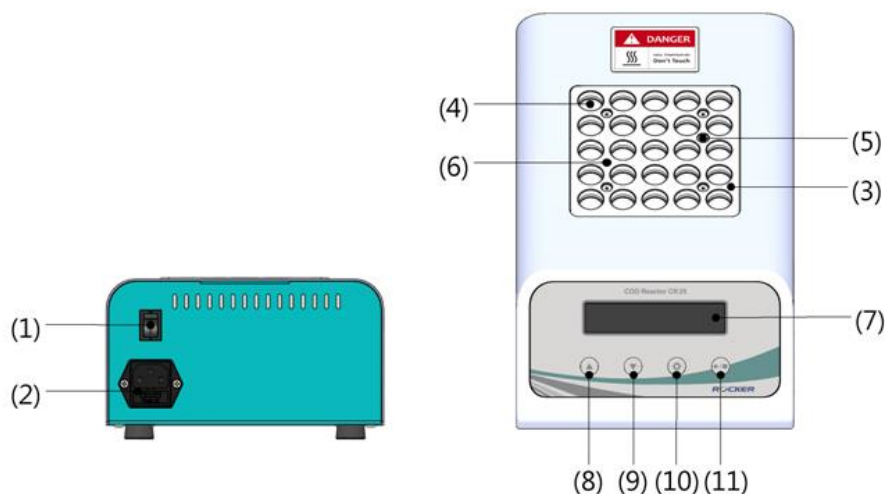
Most Common Problems

Issue	Cause	Solution
A. Fail to start	1. Check if the temperature is too high	Operate after the machine cooling down
	2. Loose plug.	Reconnect plug to power supply and power plug.
	3. Check if the fuse is blown.	Replace a new fuse.
	4. Power switch is not conductive. (check with a multimeter)	Replace a new power switch
	5. Check if the motherboard is bad	Replace a new motherboard
B. LCD displays abnormally	1. Check if the circuit wiring is correct and whether the wiring is damaged	Replace with a new wiring set, and install correctly
	2. Check if the LCD display is bad	Replace a new LCD display
	3. Check if the motherboard is bad	Replace a new motherboard
C. Buttons do not work properly	1. Check if the circuit wiring is correct and whether the wiring is damaged	Replace with a new wiring set, and install correctly
	2. Check if the button board is damaged	Replace a new button board
	3. Check if the motherboard is bad	Replace a new motherboard
D. No sound or Low sound	1. Check if the buzzer sticker is torn off.	Torn off the sticker
	2. Check if the motherboard is bad	Replace a new motherboard

E. Heating speed becomes lower	1. Check if the setting of temperature is correct	Set the correct temperature
	2. Check if the temperature in the block is correct	Calibrate the accurate temperature
	3. Check if the circuit wiring is correct and whether the wiring is damaged	Replace a new wiring set, and install correctly
	4. Check if the heater is aging or damaged	Replace a new heater
	5. Check if the overheat protection is faulty.	Replace a new heater overheat protection device
	6. Check if the motherboard is bad	Replace a new motherboard
F. Liquid sprayed out when the tube was heated.	1. Check if the setting of temperature is correct	Set the correct temperature
	2. Check if the temperature in the block is correct	Calibrate the accurate temperature
	3. Check if the test tube is correct	Use the correct test tube

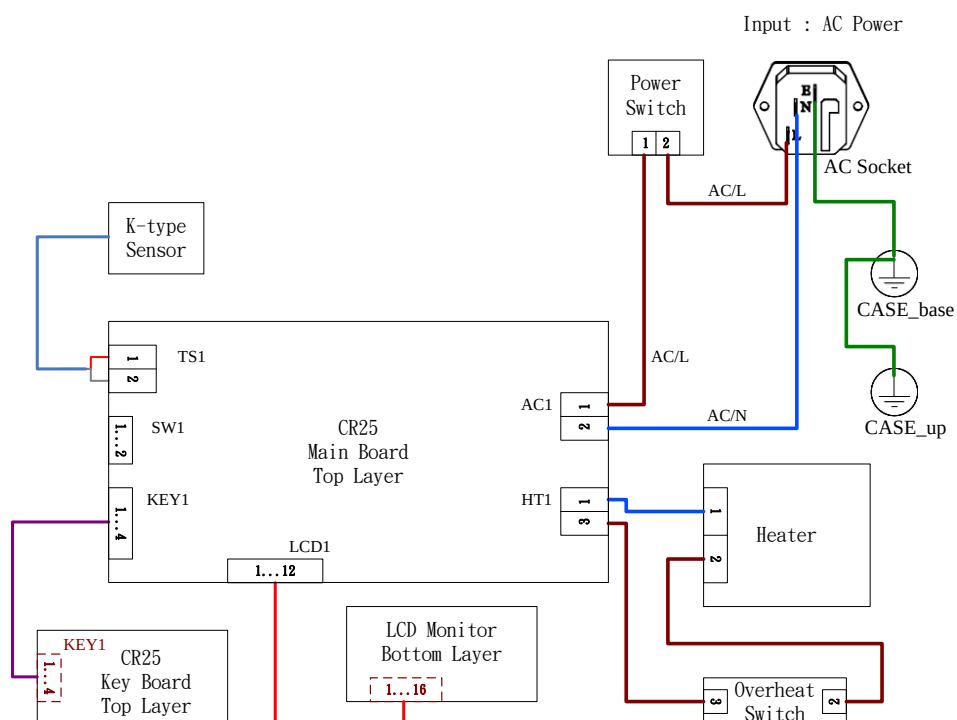
Exploded view & Parts List

Main unit instruction:

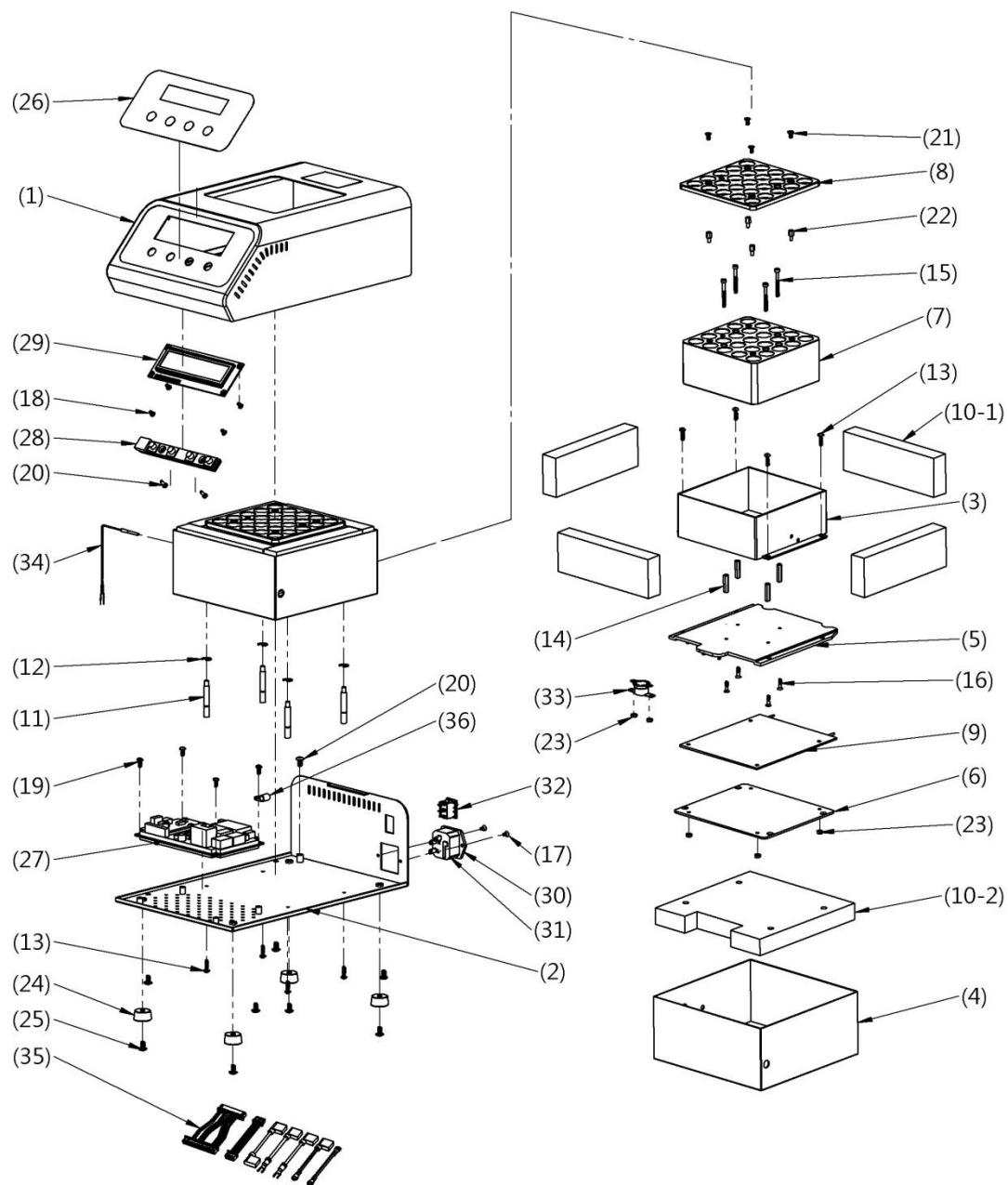


Item	Description	Item	Description
1	Power Switch	7	LED display
2	Power connection port with fuse	8	Up button
3	PTFE board	9	Down button
4	Test tube hole	10	Setting / Calibration button
5	Thread hole for handle	11	Start / Stop button
6	Thermometers hole		

Circuit Diagram:



Parts List:



CR25 主機			
序號	料號	品名	數量
1	179250-31	Upper case	1
2	179250-32	Bottom case	1
3	179250-33	Box of Ceramic fiber board	1
7	179250-35	16mm/25holes block	1
8	179250-37	PTFE heat shield	1

9	179250-38	Heater 350W (for 110V)	110V: 1 220V: 0
	179250-39	Heater 350W (for 220V)	110V: 0 220V: 1
10-1 10-2	179250-37-1	Ceramic fiber board set	1
25	197200-37	Rubber foots	4
26	179250-A	Nameplate	1
27	179250-30	Printed Circuit Board (PCB)	1
28	179250-30-1	Button board	1
29	179250-30-2	OLED display	1
30	179250-42	Inlet module plug fuse switch male power socket	1
31	179250-42-1	Fuse 20mm 250V/4A(for 110V)	110V: 2 220V: 0
	179250-42-2	Fuse 20mm 250V/2A(for 220V)	110V: 0 220V: 2
32	167301-36	SPDT switch	1
33	179100-48	Thermostat temperature switch	1
34	179250-51	k-Type thermocouple	1
35	179250-54	Wiring harness	1

Service Video Links

Model No.	Subject	Video Link
CR 25	Disassembly	https://drive.google.com/file/d/1qe7jasimpQykFLkPMeZ4nW_kpd7u5qA9/view?usp=sharing
CR 25	Assembly	https://drive.google.com/file/d/1Q5KV0ki13cFZNvMK_TnYAC54sdZkX2kH/view?usp=sharing
CR 25	Replace the Fuse	https://drive.google.com/file/d/16ViiTPL2FrNOx2YBMRSVi1IKH-nEgHL4/view?usp=sharing