

JL500I

Maintenance Manual



MATERIAL CODE	NAME	CHANGE GUIDE	CHANGE FREQUENCY	WARRANTY	SPARE SUGGESTION/100PCS MACHINES
3111084000	20g Brewer	Page 1	Failure	1 year	5
3111055300	Brewer drive	Page 1	Failure	1 year	5
5111067000	Outlet pipe	Page 1	Failure	1 year	5
5112051200	Brewer upper strainer	Page 2-4	Failure	1 year	5
5112051300	Brewer lower strainer	Page 2-4	Failure	1 year	5
5206051900	O ring - D45X3.5	Page 2-4	Failure	1 year	5
5111082000	Coffee grounds funnel	Page 5	Failure	1 year	5
3311053400	ES_BREWER_PCBA V1.4 (circuit board)	Page 6-7	Failure	1 year	5
2103050800A	EK7 grinder (220V)	Page 8	Failure	1 year	5
2104053400A	EK7 Bean hopper group (without lock)	Page 9	Failure	1 year	5
2104052900C	W78H350 Single-wheel canister group	Page 9	Failure	1 year	5
2104053000C	W78H350 Double-wheel canister group	Page 9	Failure	1 year	5
2104053900C	W78H350 Wheel-less canister group	Page 9	Failure	1 year	5
5111064000B	Left nozzle - canister	Page 9	Failure	1 year	5
5111063100B	Right nozzle - canister	Page 9	Failure	1 year	5
5111071400A	Straight nozzle - canister	Page 9	Failure	1 year	5
5111081300A	Double 78mm Insect-proof cover	Page 9	Failure	1 year	5
5111081200A	Double 78mm Insect-proof base	Page 9	Failure	1 year	5
5111081500A	Triple 78mm Insect-proof cover	Page 9	Failure	1 year	5
5111081400A	Triple 78mm Insect-proof base	Page 9	Failure	1 year	5
5111061200A	Canister motor spiale	Page 10	Failure	1 year	5
3121051700C	Mixer drive (dual inlet)	Page 11	Failure	1 year	5

MATERIAL CODE	NAME	CHANGE GUIDE	CHANGE FREQUENCY	WARRANTY	SPARE SUGGESTION/100PCS MACHINES
3121050100C	Mixer drive (single inlet)	Page 11	Failure	1 year	5
5402090800B	Mixer motor	Page 11	Failure	1 year	5
5121053200A	Piston_filter	Page 11	Failure	1 year	5
5206051200A	O sealing ring - INDIA6XWireDia1.5	Page 12	Failure	1 year	5
5206051300A	O sealing ring33.5X2.65	Page 12	Failure	1 year	5
5206051100B	V sealing ring	Page 12	Failure	1 year	5
6305068300A	Mixer insect-proof sponge	Page 14	Failure	1 year	5
2105050100B	Mixer group	Page 13	Failure	1 year	5
5121053100B	Main_bowl_MXR_SL1000	Page 13	Failure	1 year	5
5121050700A	Fixed_ring_MXR_SL5C	Page 13	Failure	1 year	5
5121053000A	CVR_MXR_SL1000	Page 13	Failure	1 year	5
5121052900A	Mixer inlet plug	Page 13	Failure	1 year	5
5402089200B	Fan	Page 16-17	Failure	1 year	5
5207050800A	Channel bellows	Page 15	Failure	1 year	5
5212050600A	Waste bin	Page 18	Failure	1 year	5
3122055000A	Waste bin 6L (deeper)	Page 18	Failure	1 year	5
5212050100A	Waste bin 18L	Page 18	Failure	1 year	5
3403050800A	Gear pump	Page 19	Failure	1 year	5
3405050800C	2P/3W valve	Page 20	Failure	1 year	5
3405050300B	3-way valve (23MA2V)	Page 21	Failure	1 year	5
3405050200B	4-way valve (24MA2V)	Page 21	Failure	1 year	5
3407050100B	Flowmeter sensor	Page 22	Failure	1 year	5

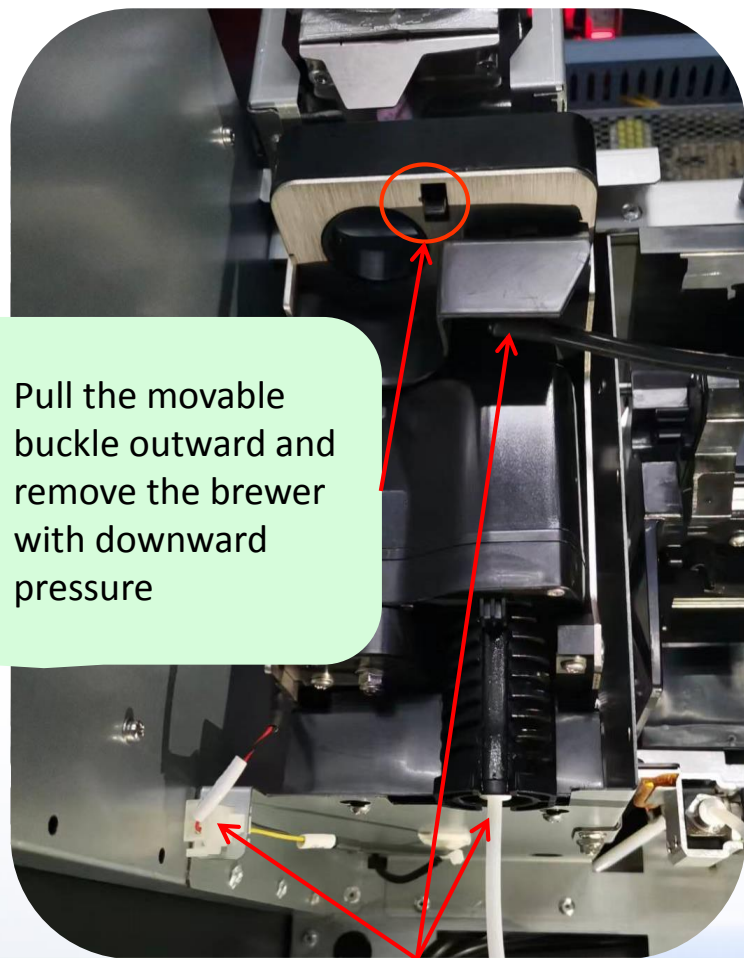
MATERIAL CODE	NAME	CHANGE GUIDE	CHANGE FREQUENCY	WARRANTY	SPARE SUGGESTION/100PCS MACHINES
3405051000A	Non-return valve	Page 23	Failure	1 year	5
3405050600B	Safety valve	Page 24	Failure	1 year	5
3121050500C	Water tank group	Page 25	Failure	1 year	5
5121053400A	Water tank	Page 25	Failure	1 year	5
5121053500B	Water tank cover	Page 25	Failure	1 year	5
3313054000A	Float switch	Page 25	Failure	1 year	5
3405053000A	Inlet solenoid valve	Page 26	Failure	1 year	5
3404050800B	Boiler group	Page 27-28	Failure	1 year	5
3404050200C	Boiler-2700W	Page 29-31	Failure	1 year	5
5405100800A	Thermostat (PBR380V-120)	Page 32	Failure	1 year	5
5405050200A	Pressure sensor	Page 33	Failure	1 year	5
5405050600C	Temperature sensor	Page 34	Failure	1 year	5
5402068500B	STB connector	Page 35	Failure	1 year	5
3111051400A	90mm cup dispenser group	Page 36	Failure	1 year	5
5114052800B	Cam	Page 36	Failure	1 year	5
5121053300B	Cup dispenser connecting rod	Page 36	Failure	1 year	5
5201051100A	Cup barrel turning gear (central rotating shaft)	Page 36	Failure	1 year	5
5201050300A	Cup barrel drive pinion (nine-tooth)	Page 36	Failure	1 year	5
3111084600A	90mm cup lid dispenser group	Page 36	Failure	1 year	5
3111056100A	Adjustable cup-holder group	Page 37	Failure	1 year	5
3201051700A	6mm I D6 G1/8 connector	Page 38	Failure	1 year	5
3201051500A	6mm L G1/8 connector (thread-white)	Page 44	Failure	1 year	5

MATERIAL CODE	NAME	CHANGE GUIDE	CHANGE FREQUENCY	WARRANTY	SPARE SUGGESTION/100PCS MACHINES
3201050700B	Silicone tube connector	Page 45	Failure	1 year	5
3201051600A	6mm L connector (white)	Page 41-43	Failure	1 year	5
3201051400A	6mm T connector (white AVS)	Page 40	Failure	1 year	5
3201051300A	6mm T connector (cold water)	Page 40	Failure	1 year	5
3201051200A	Internal thread D6 G1/8 connector	Page 39	Failure	1 year	5
3201051800A	4mm I D4 G1/8 connector	Page 38	Failure	1 year	5
3201055500A	Inlet valve connector	Page 46	Failure	1 year	5
5118063100	27” Touch screen (standard)	Page 47	Failure	1 year	5
3409050700A	27” Display screen (02)	Page 47	Failure	1 year	5
3403052000G	Water pump	Page 48	Failure	1 year	5
2108050200D	Water cooler	Page 49	Failure	1 year	5
3311053100B	CUP BOARD_V1.3.3 (standard)	Page 50	Failure	1 year	5
3311052900E	A83T_STUM_V3.4 (circuit board)	Page 51	Failure	1 year	5
3311056000E	I/O CTRL BOARD V1.0.7 (circuit board)	Page 52	Failure	1 year	5
3311051900B	MILL RECTIFIER V1.0	Page 78	Failure	1 year	5
3311057600B	Screen inverter	Page 54	Failure	1 year	5
3311053900B	Touch_Key_V1.1 (circuit board)	Page 55	Failure	1 year	5
3311052100	RFID_BOARD_V1.3.1 (circuit board)	Page 53	Failure	1 year	5
3311050400F	RELAY_BOARD-V1.4.2 (circuit board)	Page 56	Failure	1 year	5
3313050200B	Door switch	Page 57	Failure	1 year	5
3408050800A	RSP-200-24 power	Page 58	Failure	1 year	5
3408050500A	LRS-150-12 power	Page 59	Failure	1 year	5

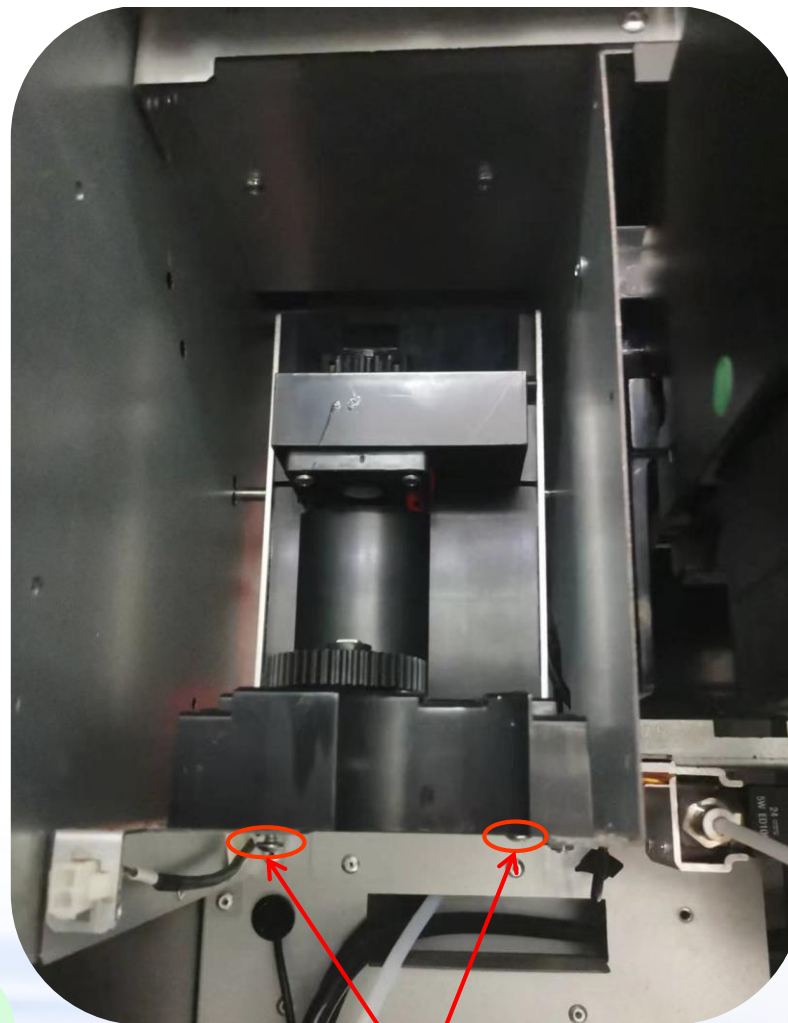
MATERIAL CODE	NAME	CHANGE GUIDE	CHANGE FREQUENCY	WARRANTY	SPARE SUGGESTION/100PCS MACHINES
5406051800A	Leakage switch	Page 60	Failure	1 year	5
3313063600A	LED light	Page 61	Failure	1 year	5
3401052400A	Motor (BO26)	Page 62	Failure	1 year	5
3401050400C	86132 Motor	Page 63	Failure	1 year	5
3313052000A	Cup door detected sensor (send)	Page 65	Failure	1 year	5
3313052100A	Cup door detected sensor (recieve)	Page 65	Failure	1 year	5
5405051000A	Cup detected sensor (send)	Page 64	Failure	1 year	5
5405051100A	Cup detected sensor (recieve)	Page 64	Failure	1 year	5
5402089500A	Microswitch	Page 36	Failure	1 year	5
3313055600B	Microswitch NO	Page 36	Failure	1 year	5
5405052900A	Slotted switch (KI5651/OJ-4705)	Page 36	Failure	1 year	5
5405053200A	Reflex sensor	Page 36	Failure	1 year	5
3313052200A	Slotted switch dustproof and waterproof KI3710	Page 36	Failure	1 year	5
3204051100A	Fuma wheel	Page 66	Failure	1 year	5
2109052900B	Built-in ice maker	Page 67	Failure	1 year	5
3311055300E	Ice Control Board V1.5 (circuit board)	Page 68	Failure	1 year	5
3311057800A	Weighing sensor control board	Page 69	Failure	1 year	5
5111076500D	Ice catcher	Page 70-71	Failure	1 year	5
5111076600D	Weighing tray	Page 72	Failure	1 year	5
3313054900B	Electronic scale	Page 73-74	Failure	1 year	5
3405052900B	Drain valve	Page 75	Failure	1 year	5
5405050800B	Temperature detection sensor	Page 76-77	Failure	1 year	5

20g brewer and brewer drive replacement manual

2. Pull the movable buckle outward and remove the brewer with downward pressure



1. Turn off the machine, unplug PTC connector, remove the brewer inlet and outlet pipes
INLET: press the end face of the white quick joint by the finger, and make sure the elastic space has been compressed, then unplug the pipe with force
OUTLET: grasp the end of the pipe and rotate it outward and pull it vertically downward

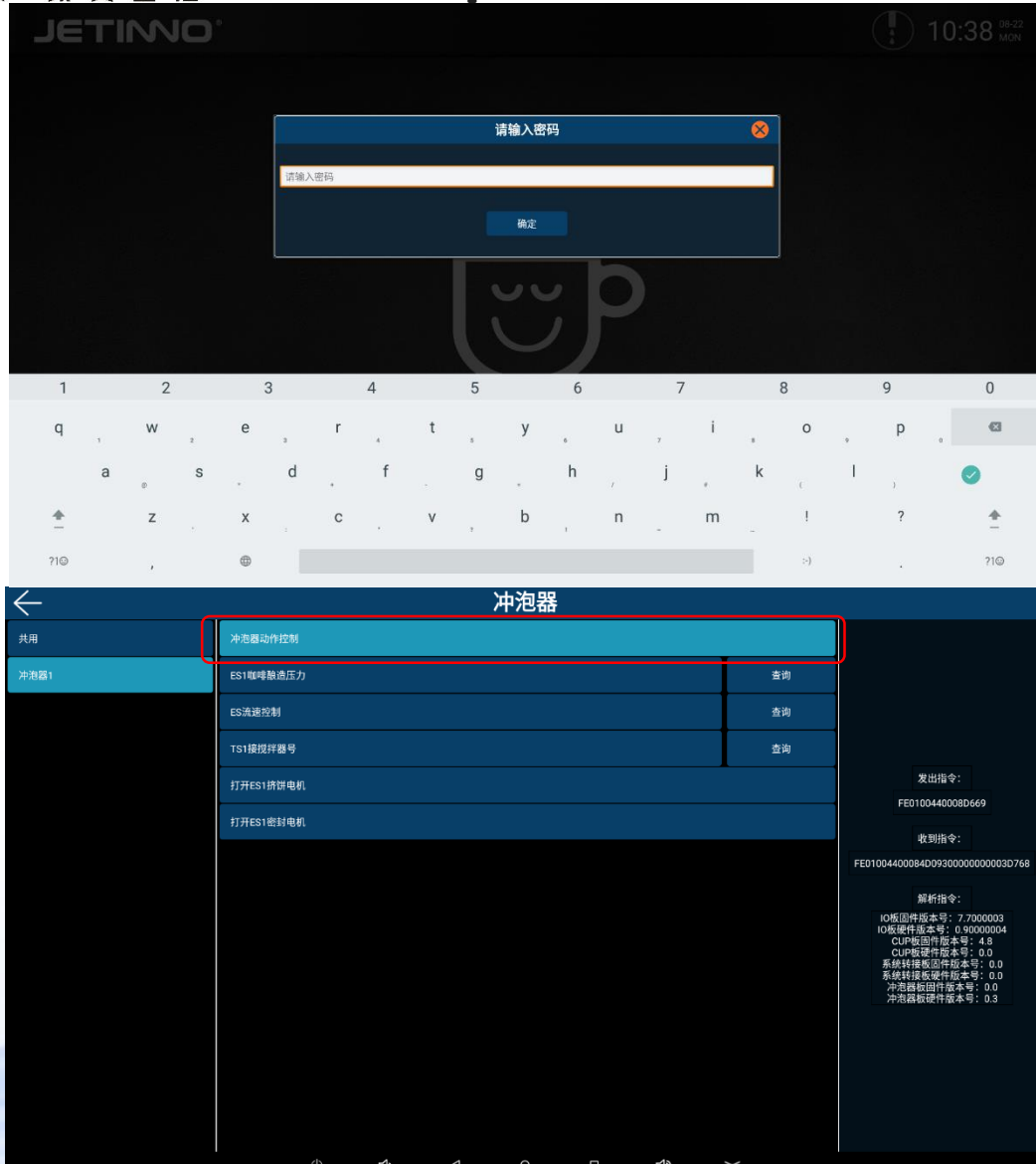


3. Remove 2 screws and take out the brewer drive



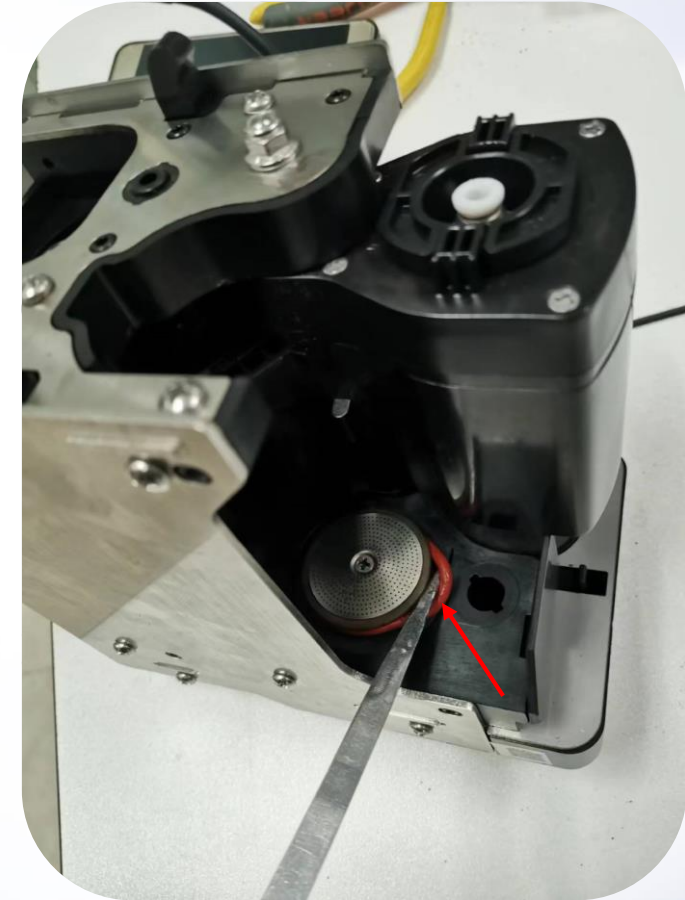
4. Unplug the two power connectors on the driver board

Outlet pipe, Brewer upper/lower strainers, O ring replacement manual - 1



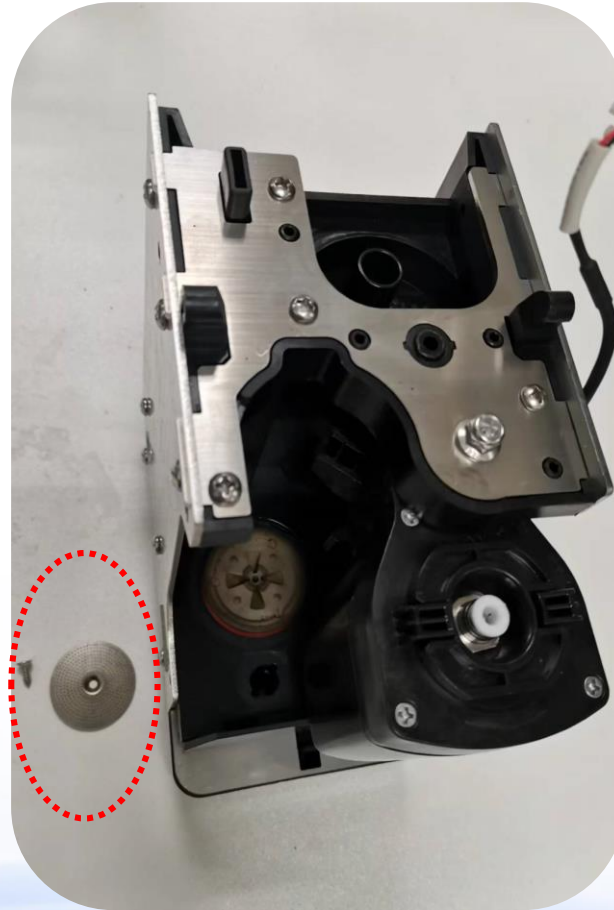
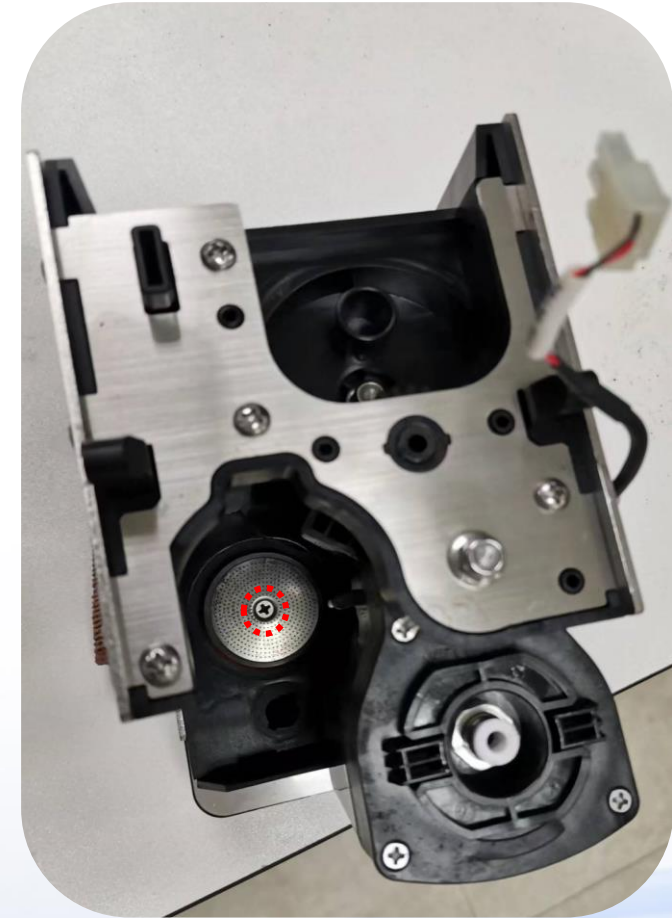
1. Swipe the RFID card, or long click on the top left corner of the screen, enter the password when the dialog box appears: **jn9527**
2. Access to the machine management system, click on the bottom right corner of the screen [Settings]->[ES Brewer]->[ES Brewer 1]->[ES Action Control]->[Dosage]; Repeat the previous operations->[ES Action Control]->[Second Squeeze], and operate twice.

Outlet pipe, Brewer upper/lower strainers, O ring replacement manual - 2



3. Unplug the PTC connector; Rotate the coffee spout outward and pull down vertically to remove the spout
4. Press the end face of the white quick joint by the finger, and make sure the elastic space has been compressed, then unplug the pipe with force
5. Pull the movable buckle outward and remove the brewer with downward pressure
6. When brewing coffee, liquid spills from the upper plunger, probably because the sealing ring is damaged. Take off the old seal with the regulator, take a new one and put it on.

Outlet pipe, Brewer upper/lower strainers, O ring replacement manual - 3

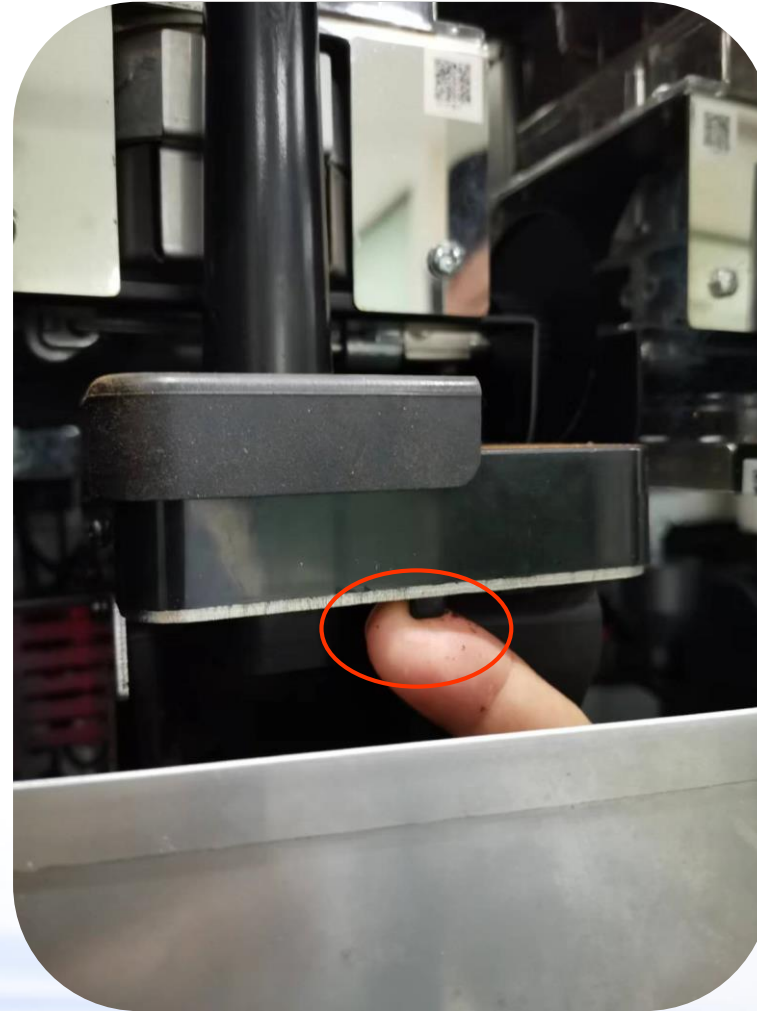


7. Remove the screws from the center part of the upper/lower strainers and take the strainers out.
8. Check whether the mesh is blocked, if it is, please take out a new one to replace it
9. Soak the old strainer with chemicals, clean it and set it aside for the next replacement.

Coffee grounds funnel replacement manual



1. Open the machine door and find the coffee grounds funnel



2. Pull the movable buckle outward and tilt the brewer forward

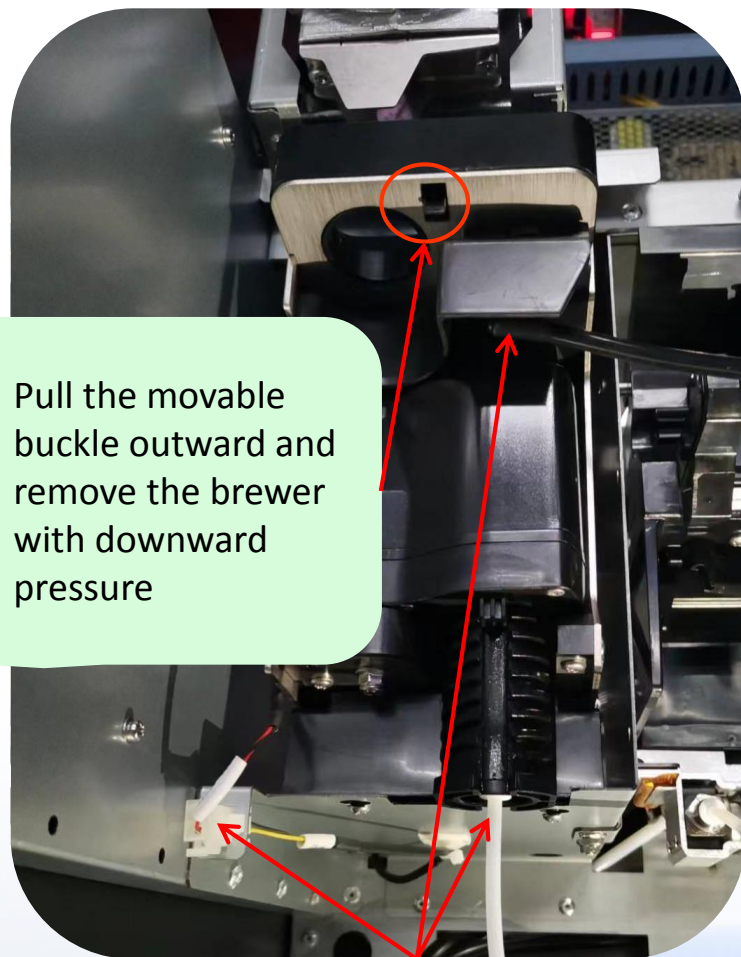


3. Remove the coffee grounds funnel, which can be replaced for cleaning

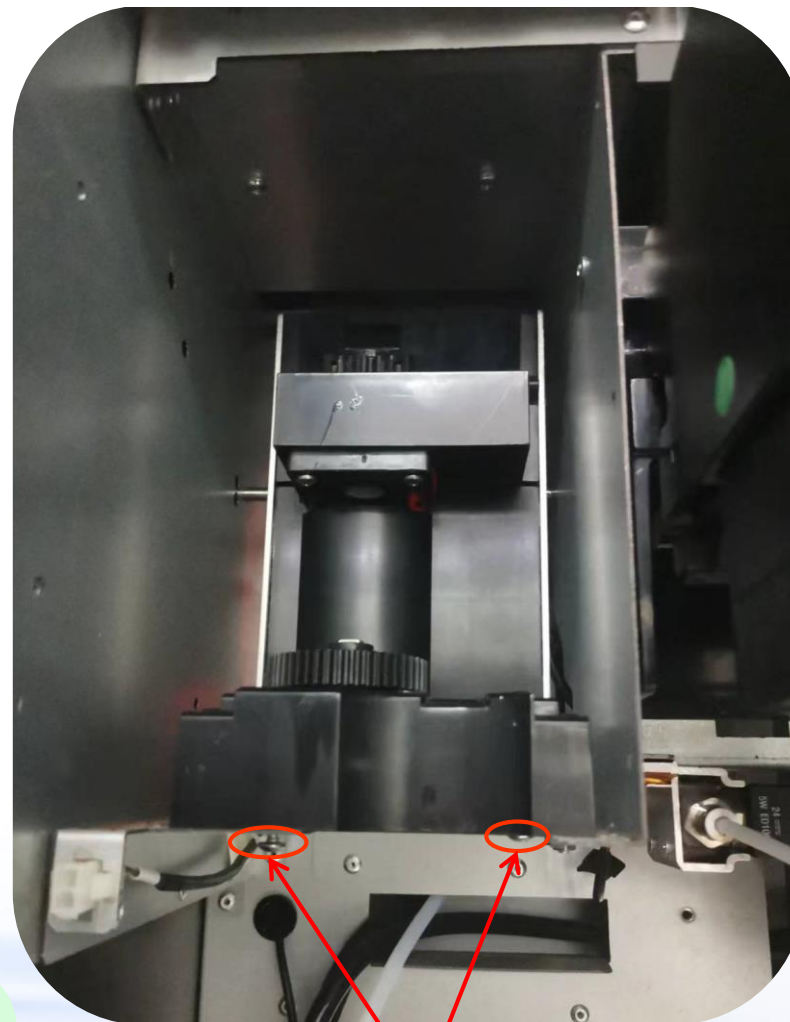
Note: When putting the brewer back on, make sure it is pushed to the bottom and the buckle is snapped on. Can pull the brewer forward and it will not fall up to prove it is locked.

ES_BREWER_PCBA V1.4 circuit board replacement manual - 1

2. Pull the movable buckle outward and remove the brewer with downward pressure



1. Turn off the machine, unplug PTC connector, remove the brewer inlet and outlet pipes
INLET: press the end face of the white quick joint by the finger, and make sure the elastic space has been compressed, then unplug the pipe with force
OUTLET: grasp the end of the pipe and rotate it outward and pull it vertically downward



3. Remove 2 screws and take out the brewer drive

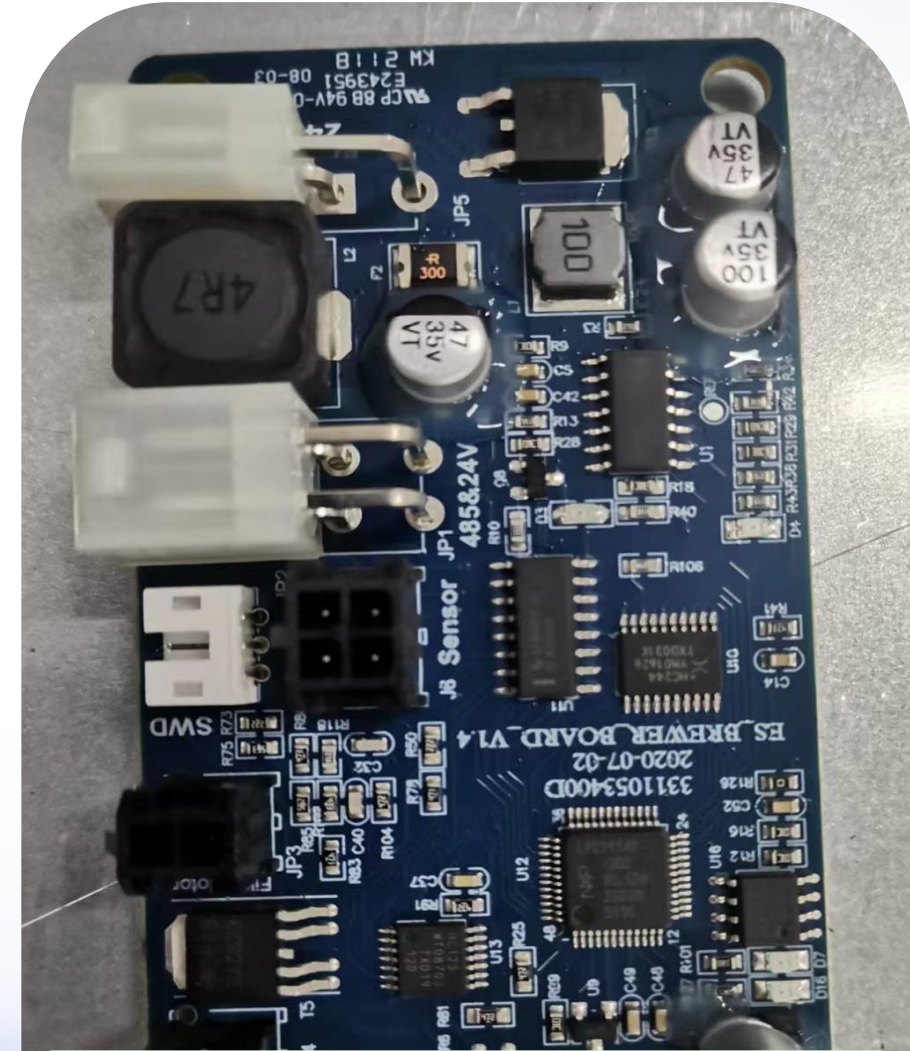


4. Unplug the two power connectors on the driver board

ES_BREWER_PCBA V1.4 circuit board replacement manual - 2

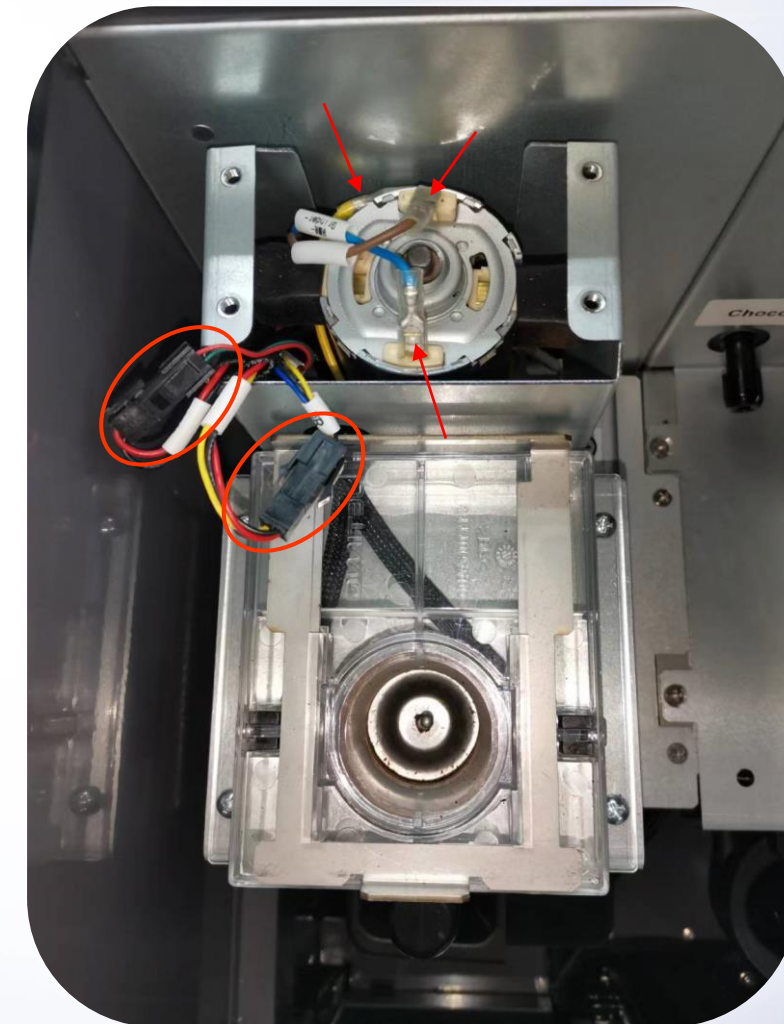
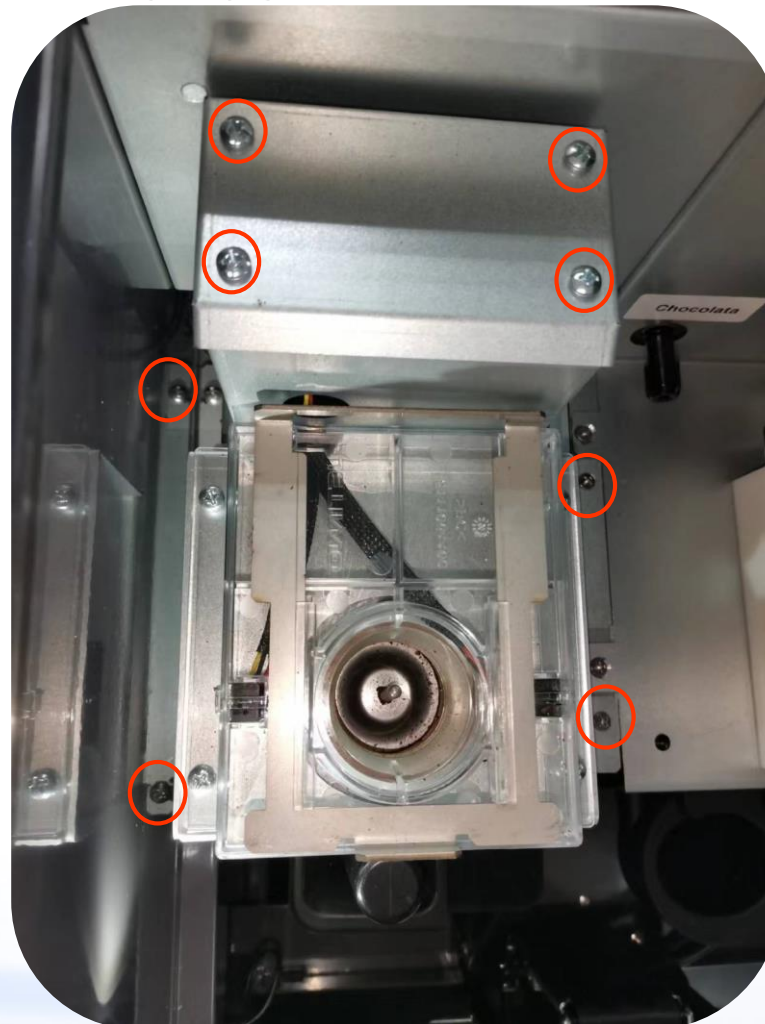


- Remove the sheet metal fixing screws on both sides of the drive module. Separate the top/bottom part of the drive.



6. Unplug the two motor power connectors, remove the ES-Brewer board and replace it.

EK7 grinder, Bean detected sensors (send/receive) replacement manual

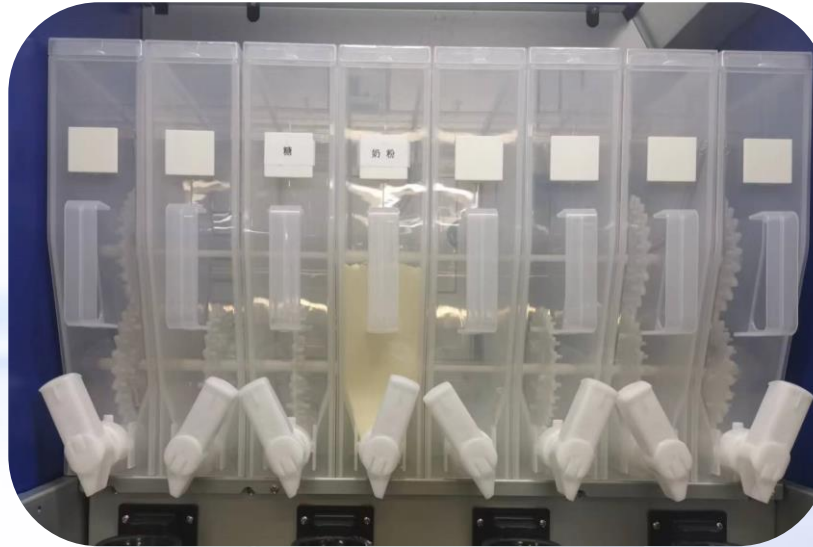
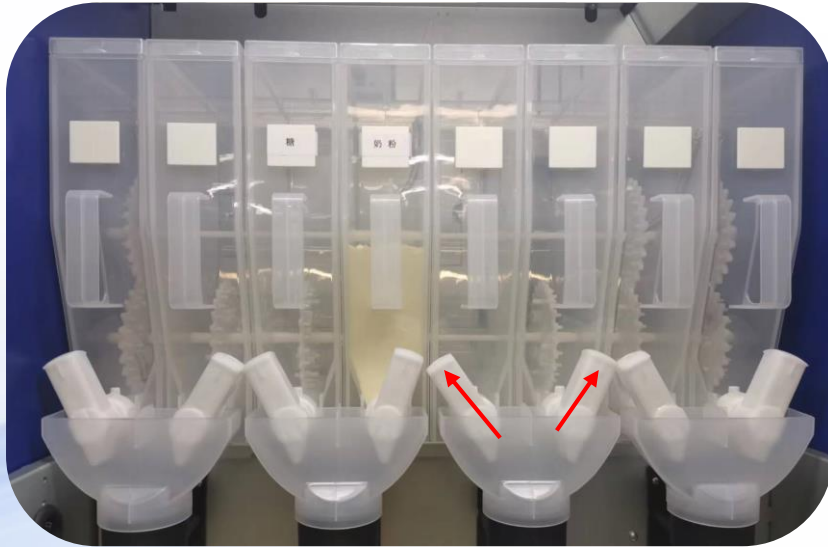
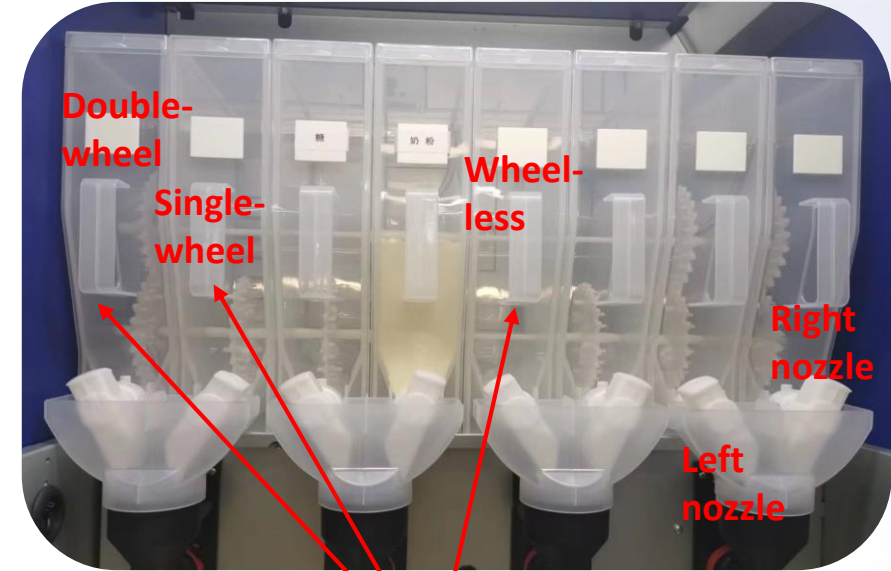
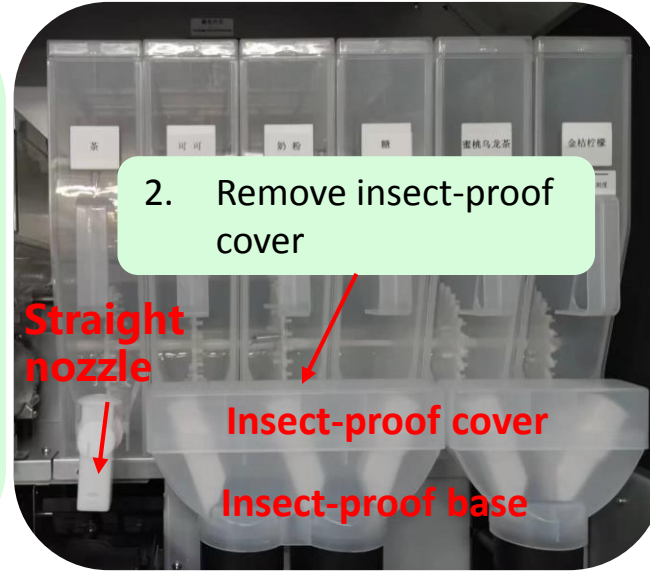


1. Turn off the machine and unplug the power supply. Open machine door, push the plate under the bean hopper inward to the bottom. Lift the bean hopper upward and outward, then can remove it
2. Long Phillips screwdriver to remove the left/right fixing screws of the grinder module; Short screwdriver to remove the screws on the motor protection cover
3. Unplug coffee bean sensor terminals (infrared receiver: three wires, infrared emitter: two wires); Unplug motor connectors (the two terminals on the motor are divided into polarity, please take photos before replacement. Brown wire is positive, blue wire is negative, yellow wire is ground). Remove the sensor and grinder, both can be replaced.

Bean hopper, Instant canister, Powder nozzle, Insect-proof cover/base replacement manual



1. Access to machine management system, click on [Open Machine Door] and open it. push the plate under the bean hopper inward to the bottom. Lift the bean hopper upward and outward, then can be removed and cleaned.



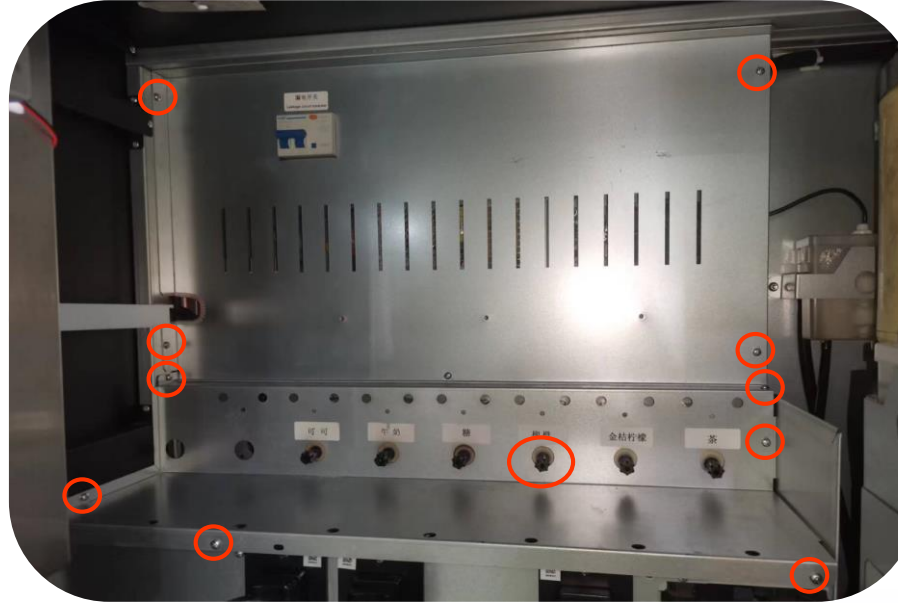
3. Three kinds of instant canister: wheel-less, single-wheel and double-wheel. The canisters are not interchangeable. And two kinds of nozzle: left and right. Before taking out the instant canister, first remove the insect-proof cover, close the nozzle, then remove the insect-proof base in order. Lift the canister upward by 5mm. When the positioning pin leaves from the fixed hole, take out the canister to clear or replace it.

4. Close nozzle (push upward until it stops). Remove insect-proof base, canisters, and can replace them. Clean canisters, nozzles, insect-proof covers and bases.

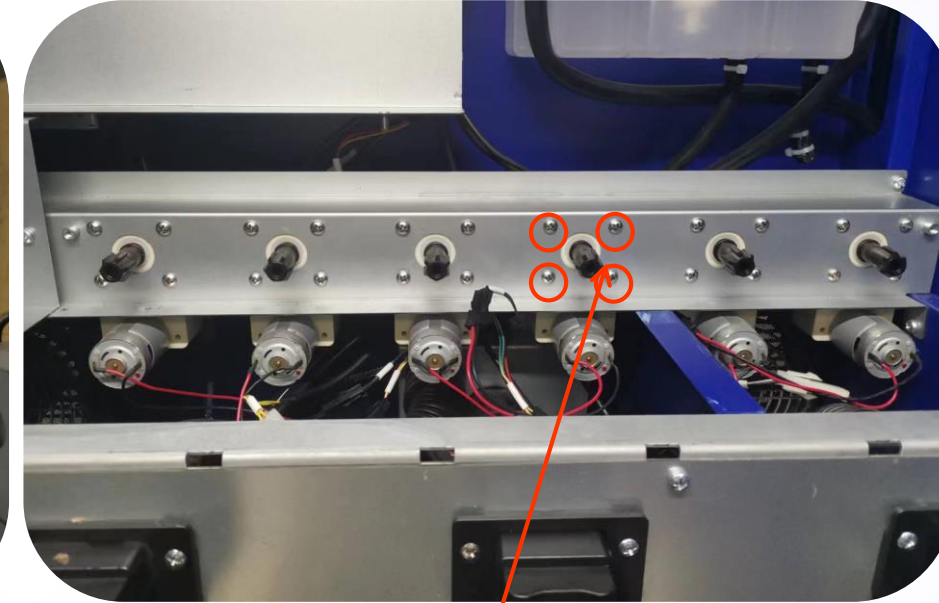
Canister motor shaft, Motor replacement manual



1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch.



2. Wrap the canister motor shaft with a towel and pull it outward to remove. Remove the screws, take off the cover plate and the sheet metal parts.



3. Unplug the canister motor connector, use a Phillips screwdriver to remove the motor to be replaced and replace it with a new one. After replacing the motor, reset the machine parts and power on. Do the [Canister Powder Dropping Test] for the corresponding canister and do the calibration.

Mixer drive group, Mixer motor disassembly manual

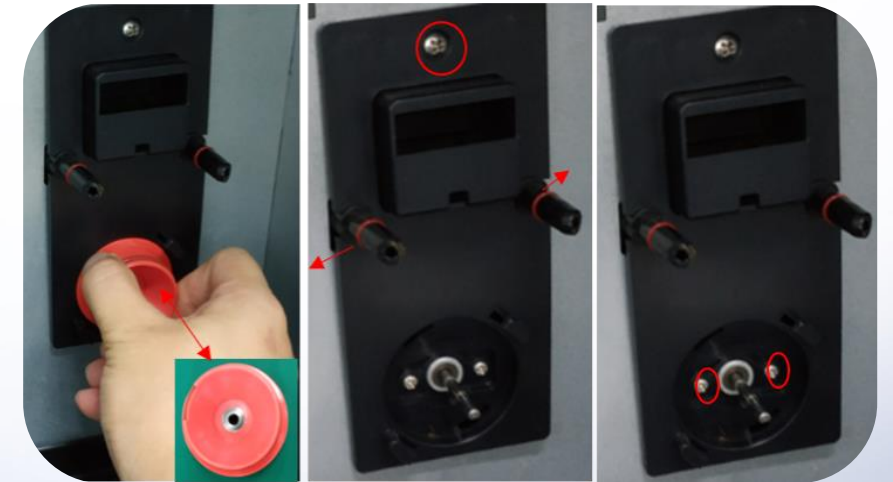
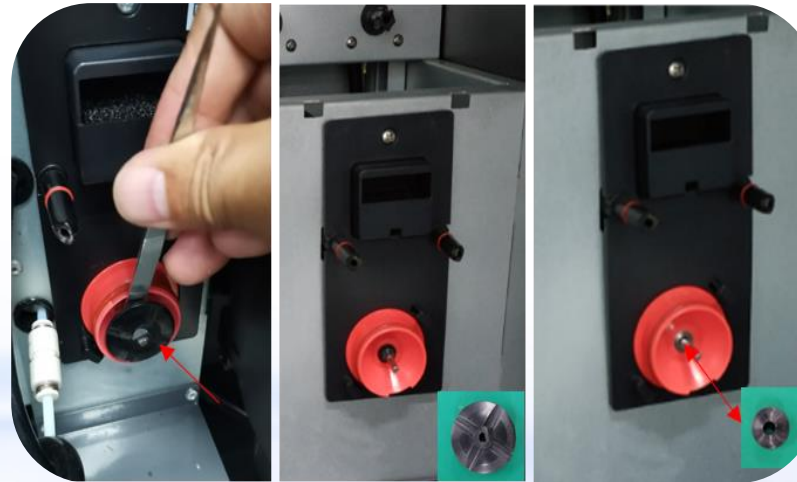
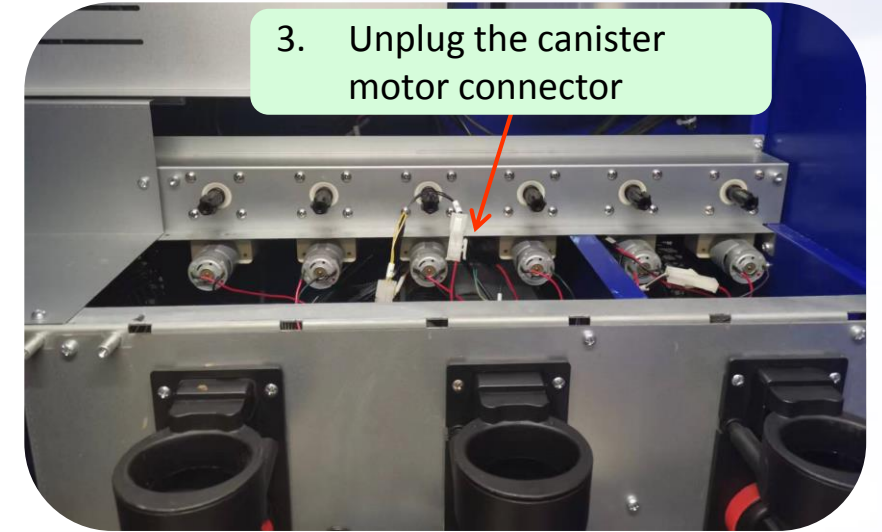
1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch.



2. Remove the screws, take off the cover plate and the sheet metal parts.



3. Unplug the canister motor connector

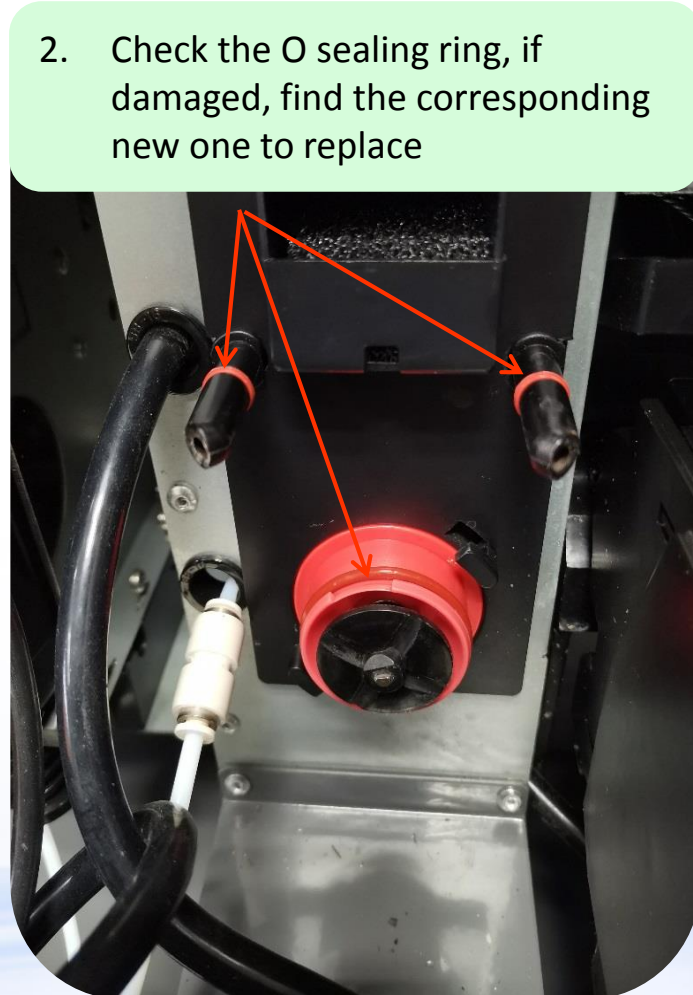


4. Turn the red fixing ring counterclockwise to disengage the mixer from the fixing base and pull it out
5. Pry out the mixing impeller and remove the V-seal
6. Turn clockwise to remove the sealing cover; remove the M4 and M3 screw, extract the fixing base, detach the outlet to the left/right. Take out the old motor and replace with a new one. Installation method is reversed from the disassembly.

V/O sealing rings replacement manual



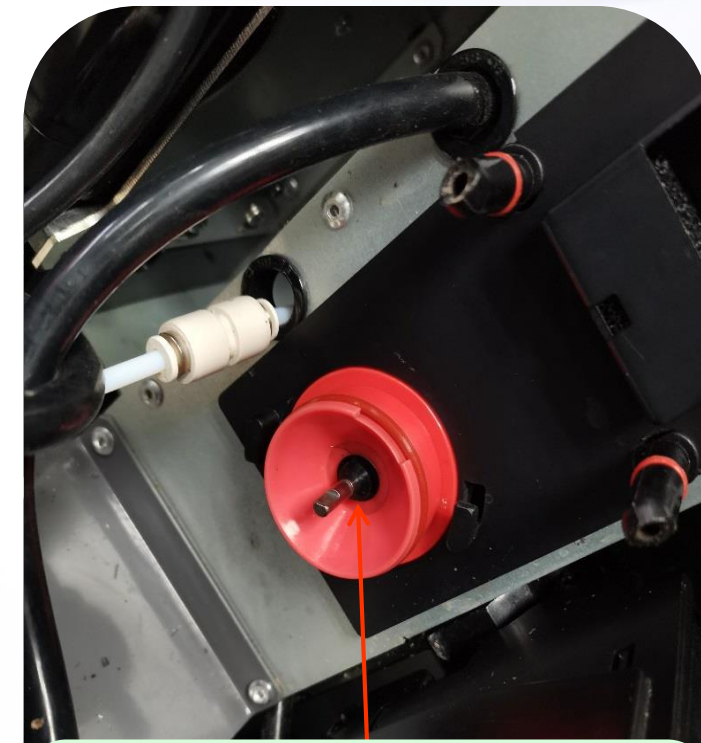
1. Remove the canister and silicone tube, pinch the handle of the fixing ring, rotate counterclockwise, pull outward the mixer



2. Check the O sealing ring, if damaged, find the corresponding new one to replace



3. Pry out the mixing impeller with tweezers



4. Remove and check the V sealing ring, if damaged, find the corresponding new one to replace

NOTE: Forbidden to operate the touch screen while the sealing ring is being replaced.

Mixer group, Mixer, Fixed ring, Cover, Inlet plug replacement manual



1. Remove the canister and silicone tube, pinch the handle of the fixing ring, rotate counterclockwise, pull outward the mixer group

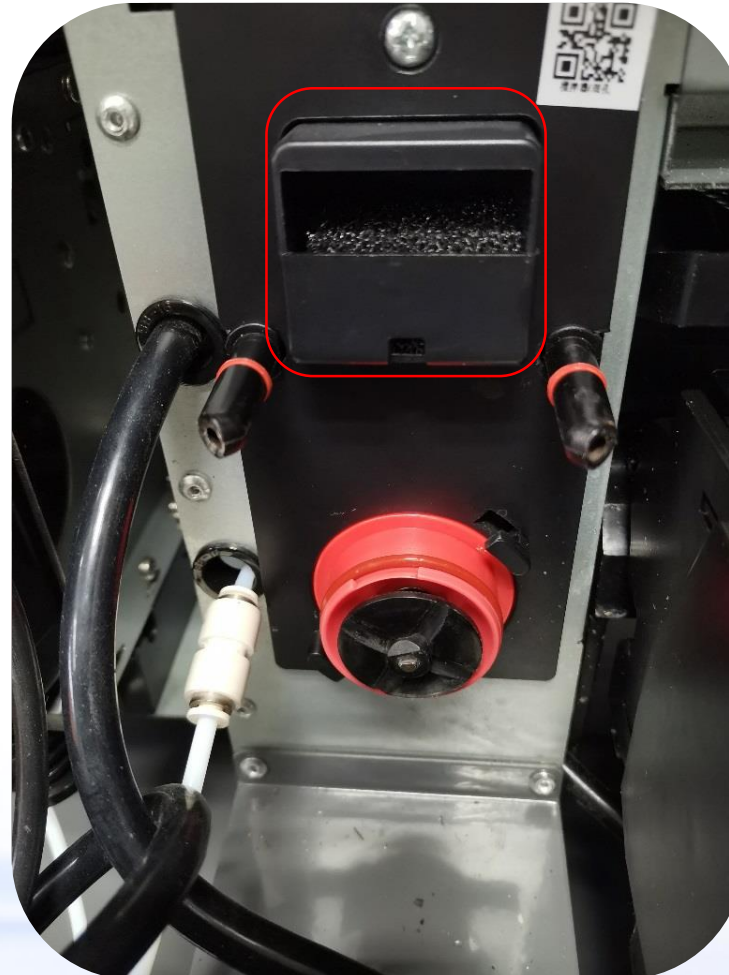
2. Mixer group contains the mixer body, the fixed ring, the cover and the inlet plug, can be removed and replaced .



Mixer insect-proof sponge replacement manual



1. Remove the canister and silicone tube, pinch the handle of the fixing ring, rotate counterclockwise, pull outward the mixer



2. Pull outward the steam inlet top/bottom cover

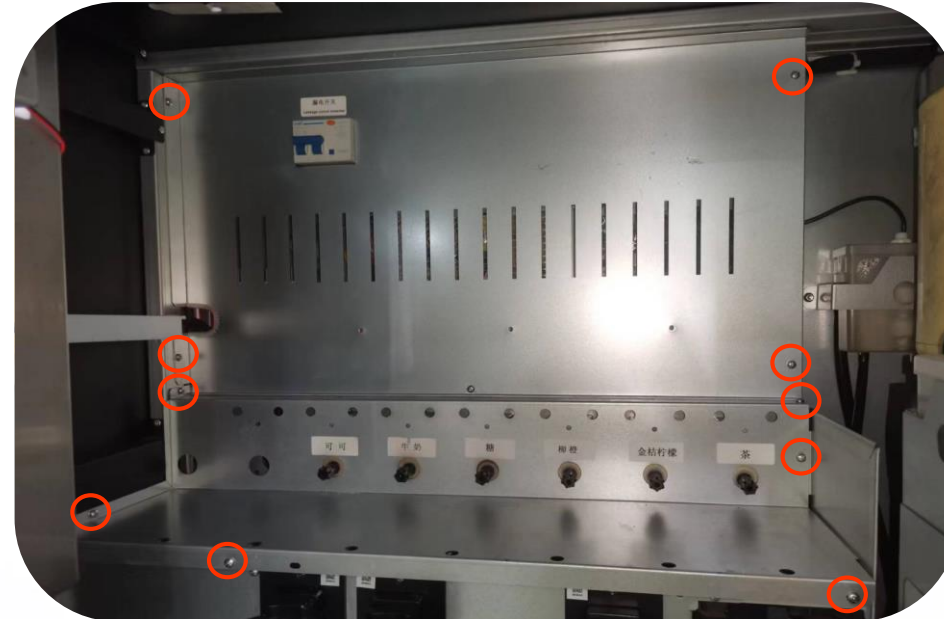


3. Separate the steam inlet top/bottom cover, take out the insect-proof sponge to replace or clean

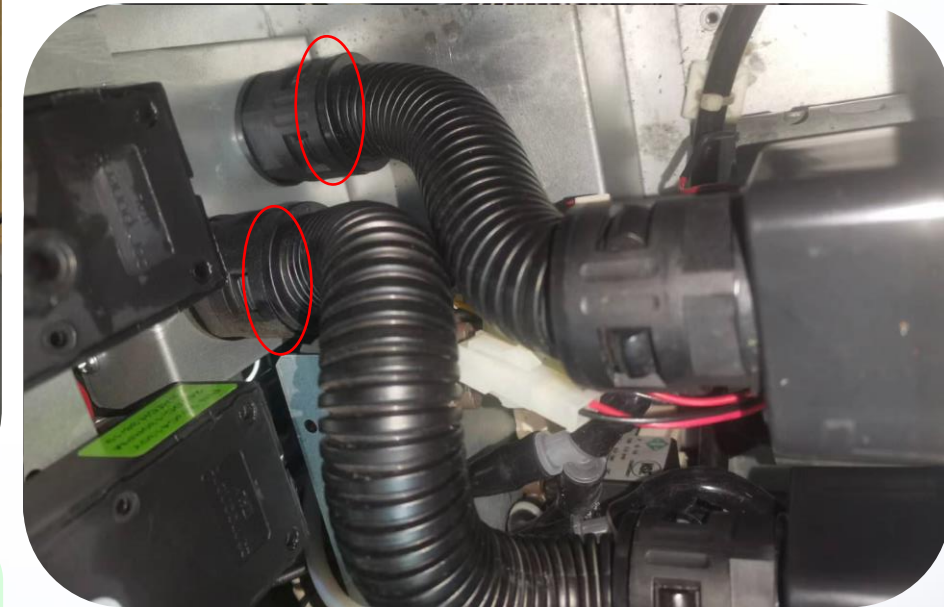
Channel bellows replacement manual



1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch.



2. Unplug the motor shaft of the corresponding canister to be replaced. Remove the screws, take off the sheet metal parts.



3. Press the channel bellows connection buckle, shrink in and pull out the bellows to replace or clean

Fan replacement manual - 1

1. Access to machine management system, click on [Open Machine Door], open and remove six canisters. Turn off the leakage protection switch.



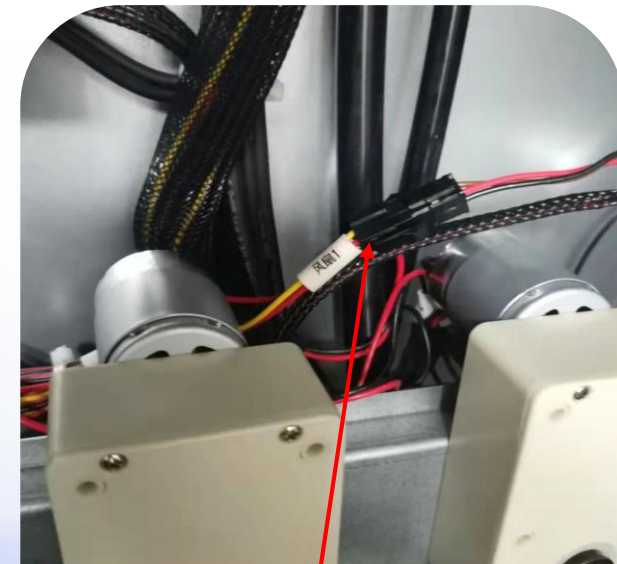
2. Remove the screws, take off the cover plate and the sheet metal parts.



3. Turn the red fixing ring counterclockwise to disengage the mixer from the fixing base



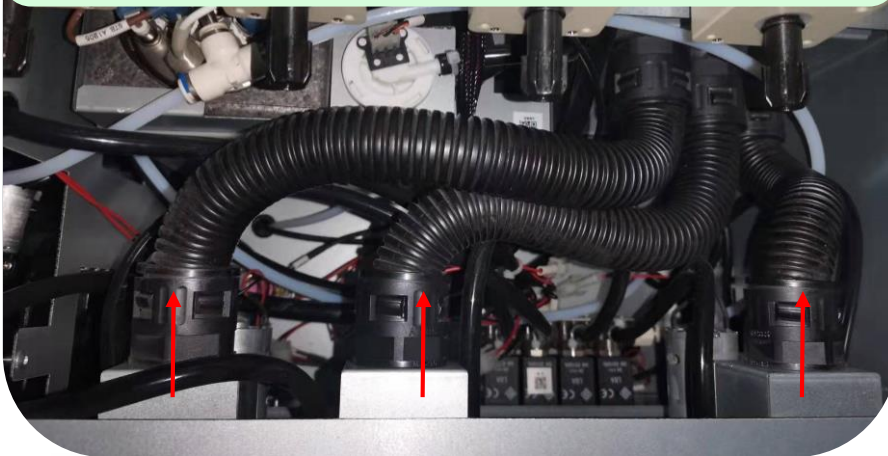
4. Take out the mixer, remove the mixer fixing base with a Phillips screwdriver and pull it out



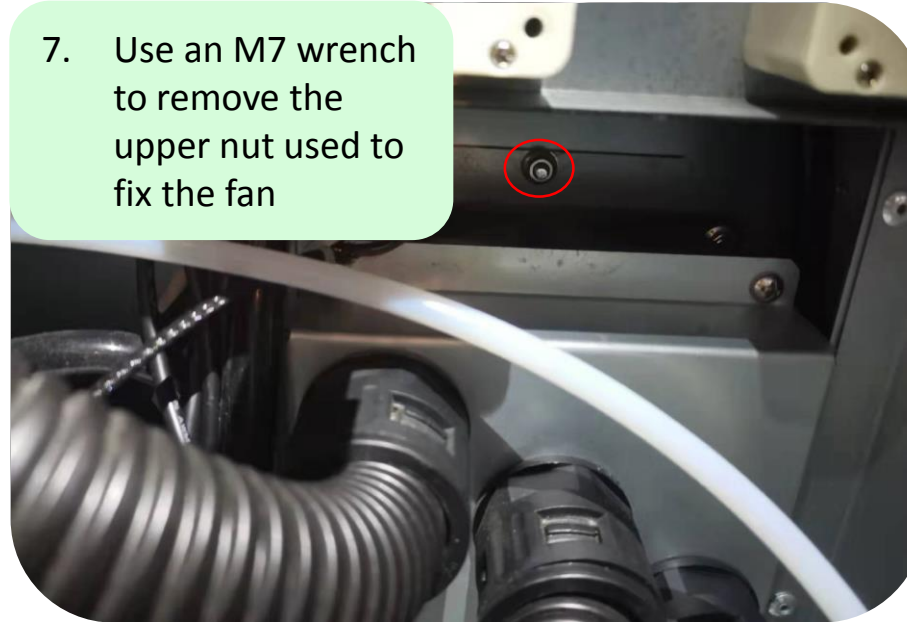
5. Follow the fan wiring up to find the fan connector and pull it out

Fan replacement manual - 2

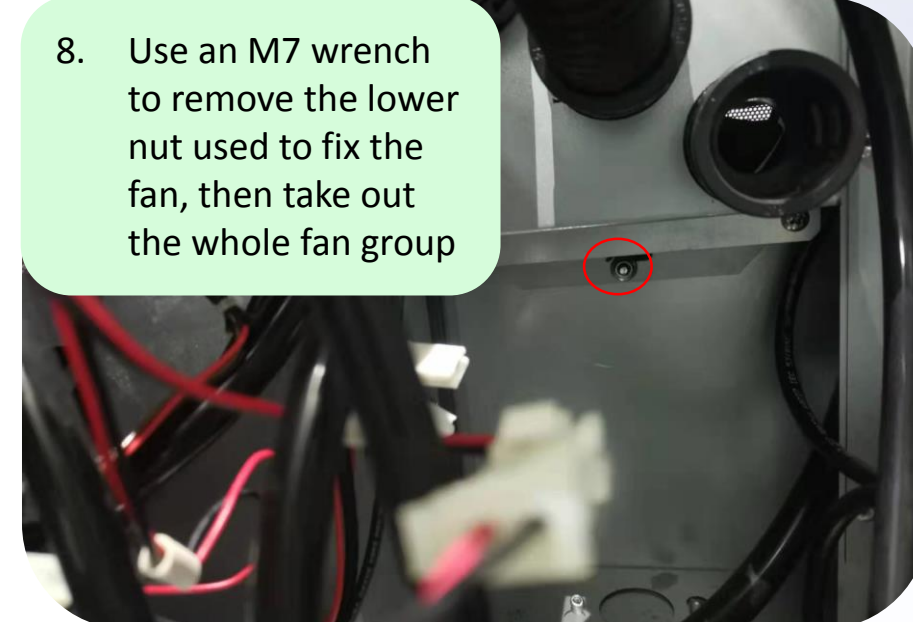
6. Pull out the fixed sheet metal box of the bellows in the direction of the arrow.



7. Use an M7 wrench to remove the upper nut used to fix the fan



8. Use an M7 wrench to remove the lower nut used to fix the fan, then take out the whole fan group



9. Use Phillips screwdriver and M7 wrench to remove the sheet metal of fan, take out the fan and replace it with a new one. Reset the machine parts step by step. Installation method is reversed from the disassembly. Power on and check if the fan is running normally. Click on [Machine Cleaning] to check for leaks.



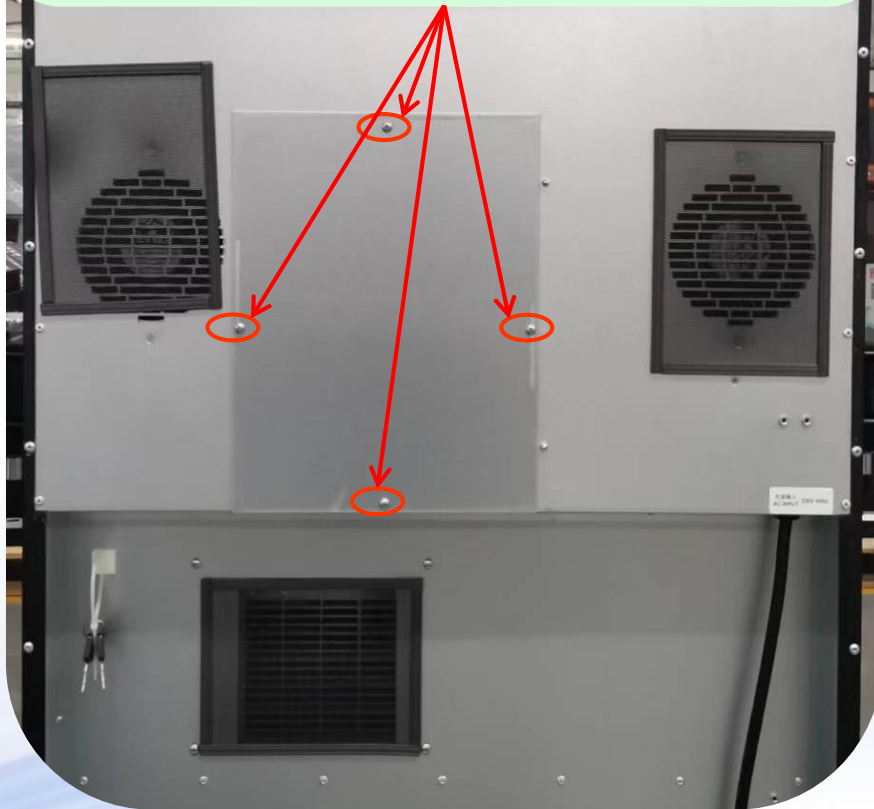
Waste bin replacement manual



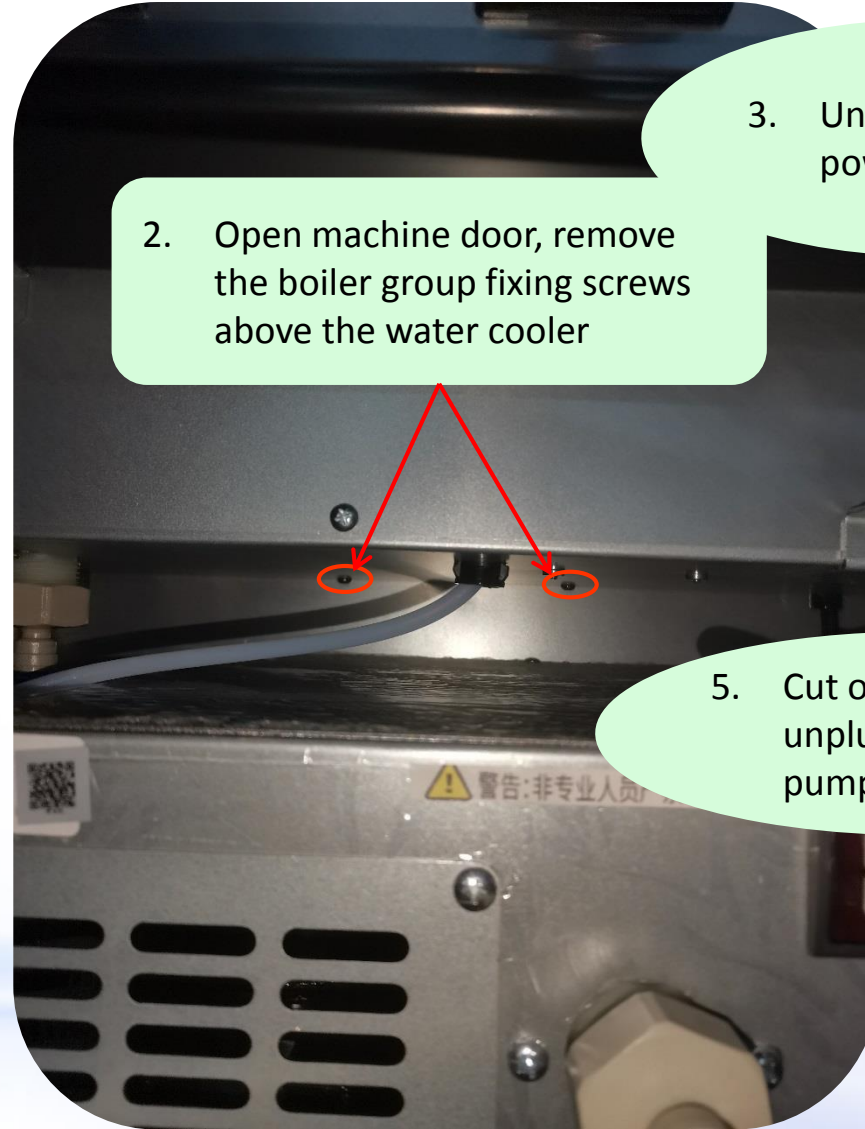
1. Access to machine management system, take out the waste bin(s), clean with a brush and rag or replace it.

Gear pump replacement manual

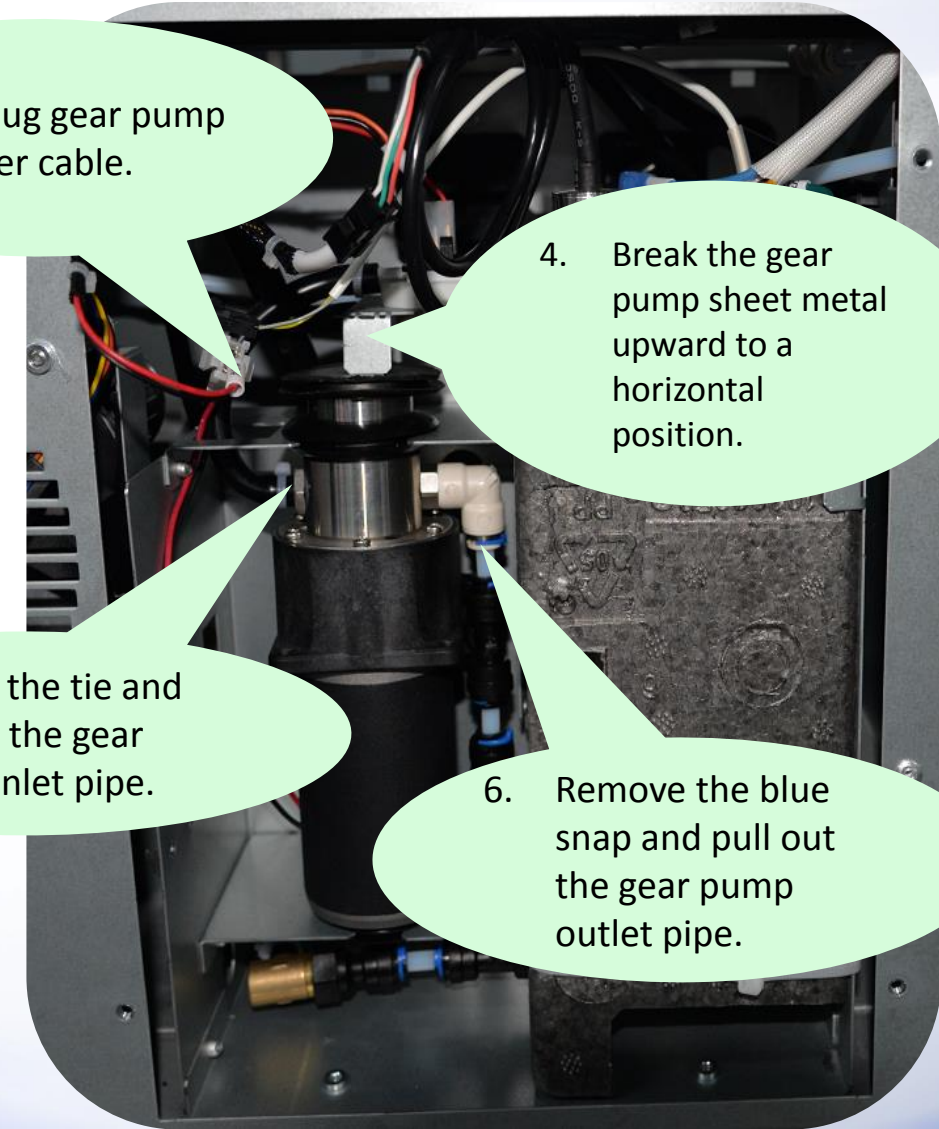
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Unplug gear pump power cable.



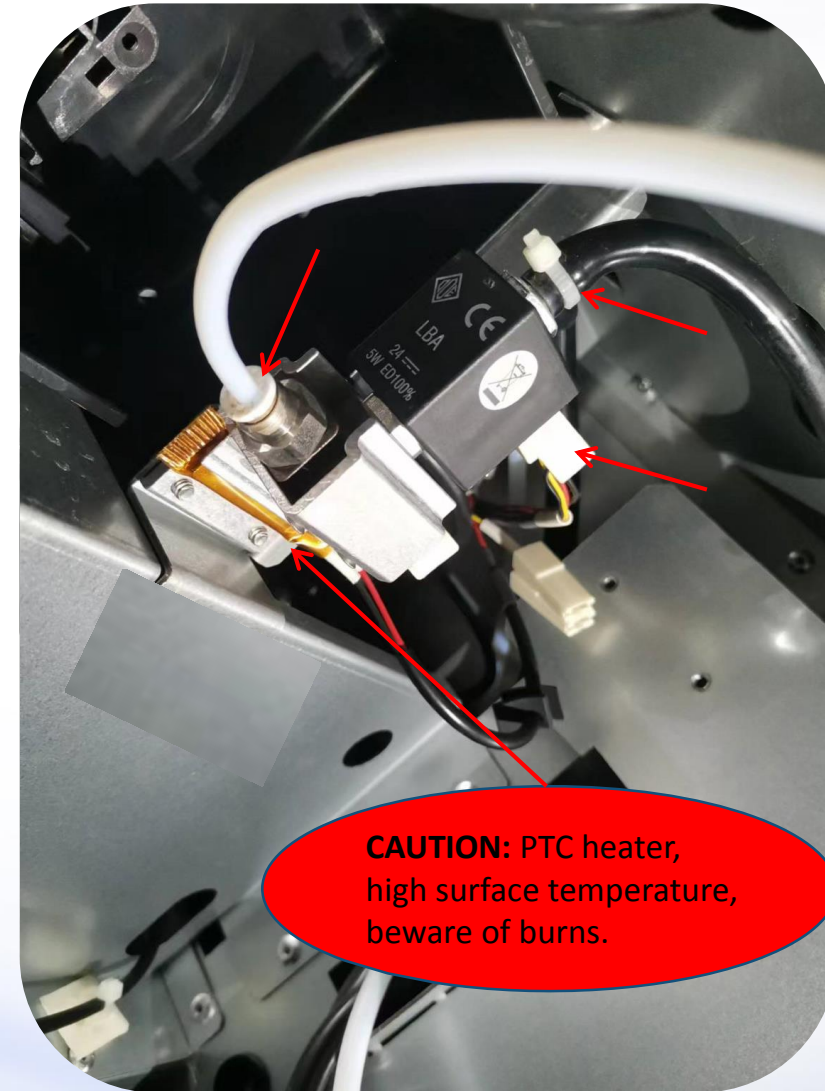
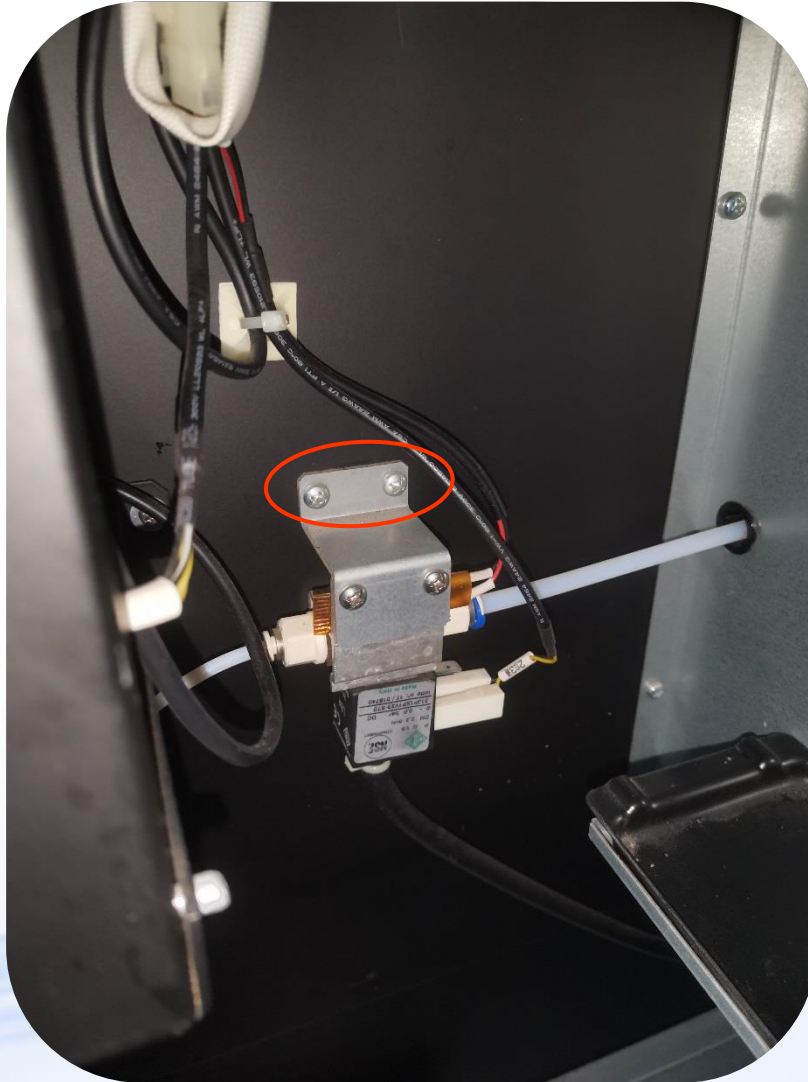
4. Break the gear pump sheet metal upward to a horizontal position.

5. Cut off the tie and unplug the gear pump inlet pipe.

6. Remove the blue snap and pull out the gear pump outlet pipe.

7. After replacing the gear pump, reset the machine parts, power on, and click on [Machine Cleaning].

2P/3W valve replacement manual

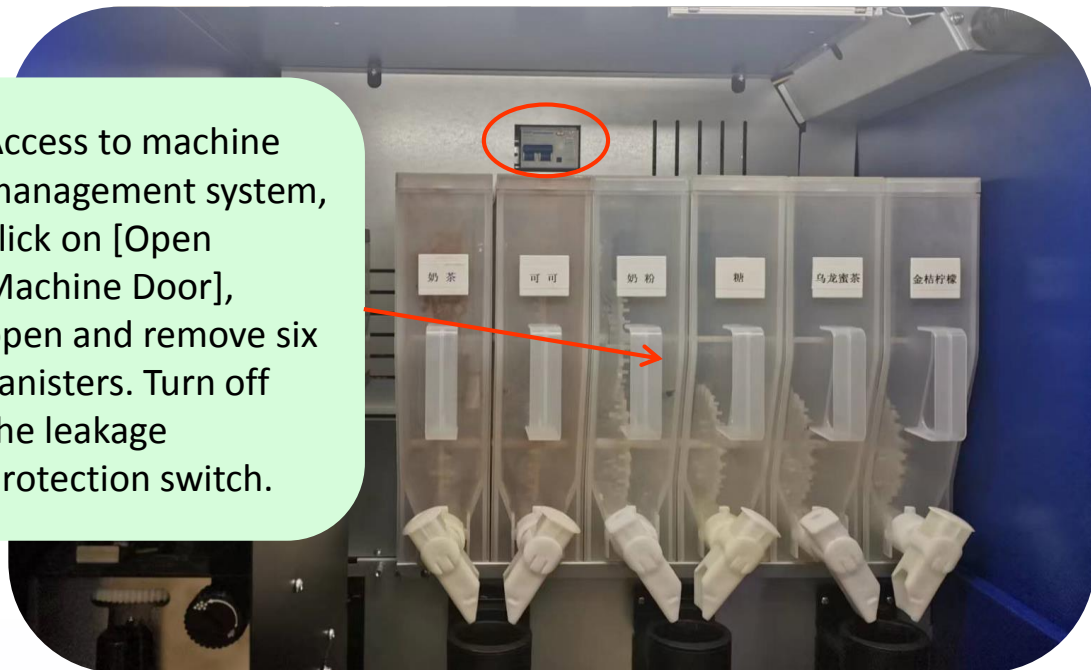


CAUTION: PTC heater,
high surface temperature,
beware of burns.

Access to machine management system, open machine door. Find the 2P/3W valve behind the brewer, cut the tie, unplug the silicone tube and the two white pipes, remove the screws, and unplug the valve power cable, then can replace the 2P/3W valve.

4-way valve (24MA2V) replacement manual

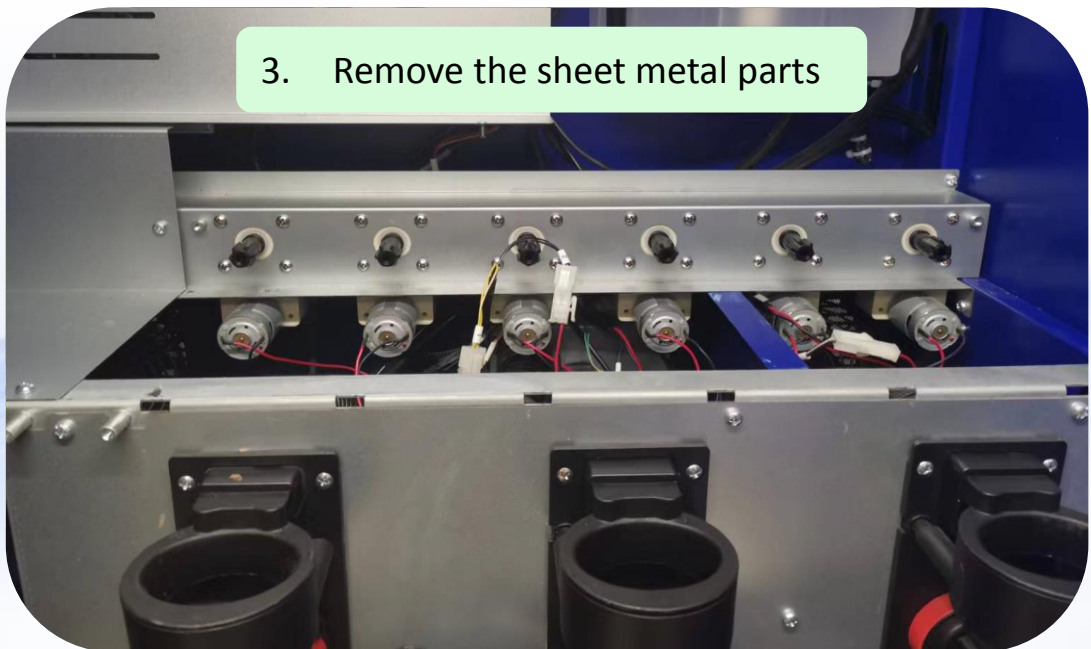
1. Access to machine management system, click on [Open Machine Door], open and remove six canisters. Turn off the leakage protection switch.



2. Remove the screws, take off the cover plate and the sheet metal parts.



3. Remove the sheet metal parts

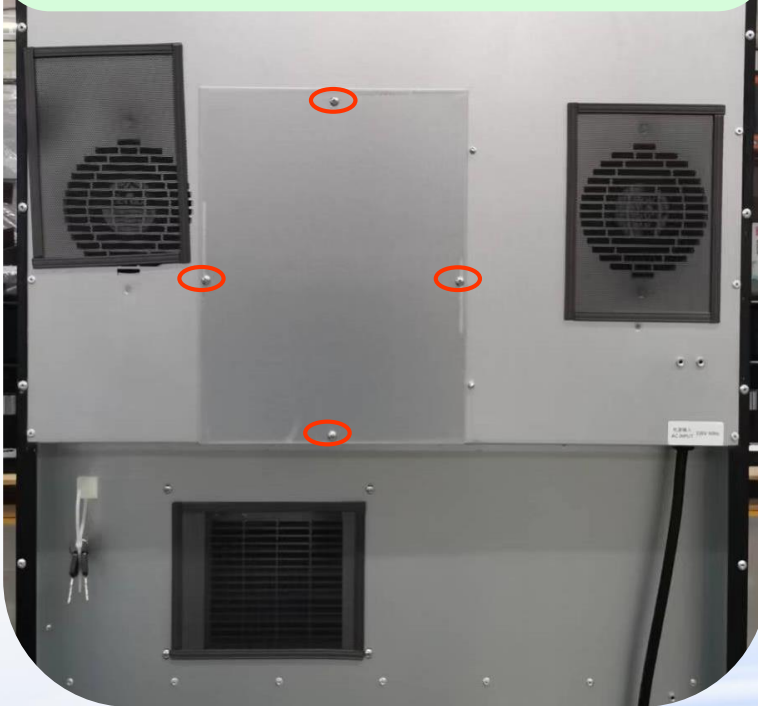


4. Press the quick joint, pull out the inlet valve pipe and cut the tie. Pull out the four silicone tubes and remove the valve fixing screws, remove the valve lines (8 in total), then can replace the outlet valve.

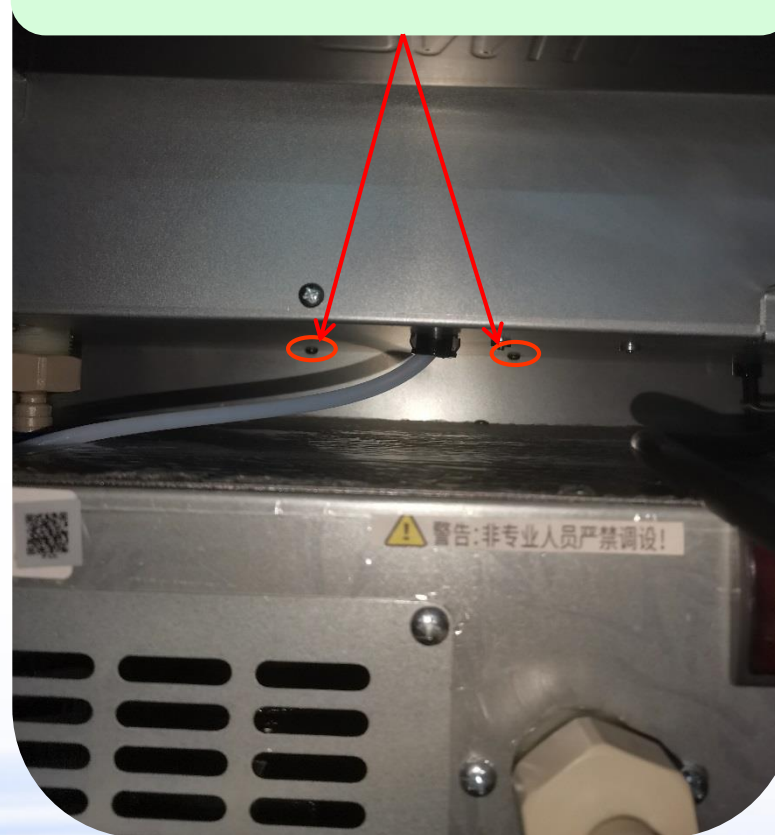


Flowmeter sensor replacement manual

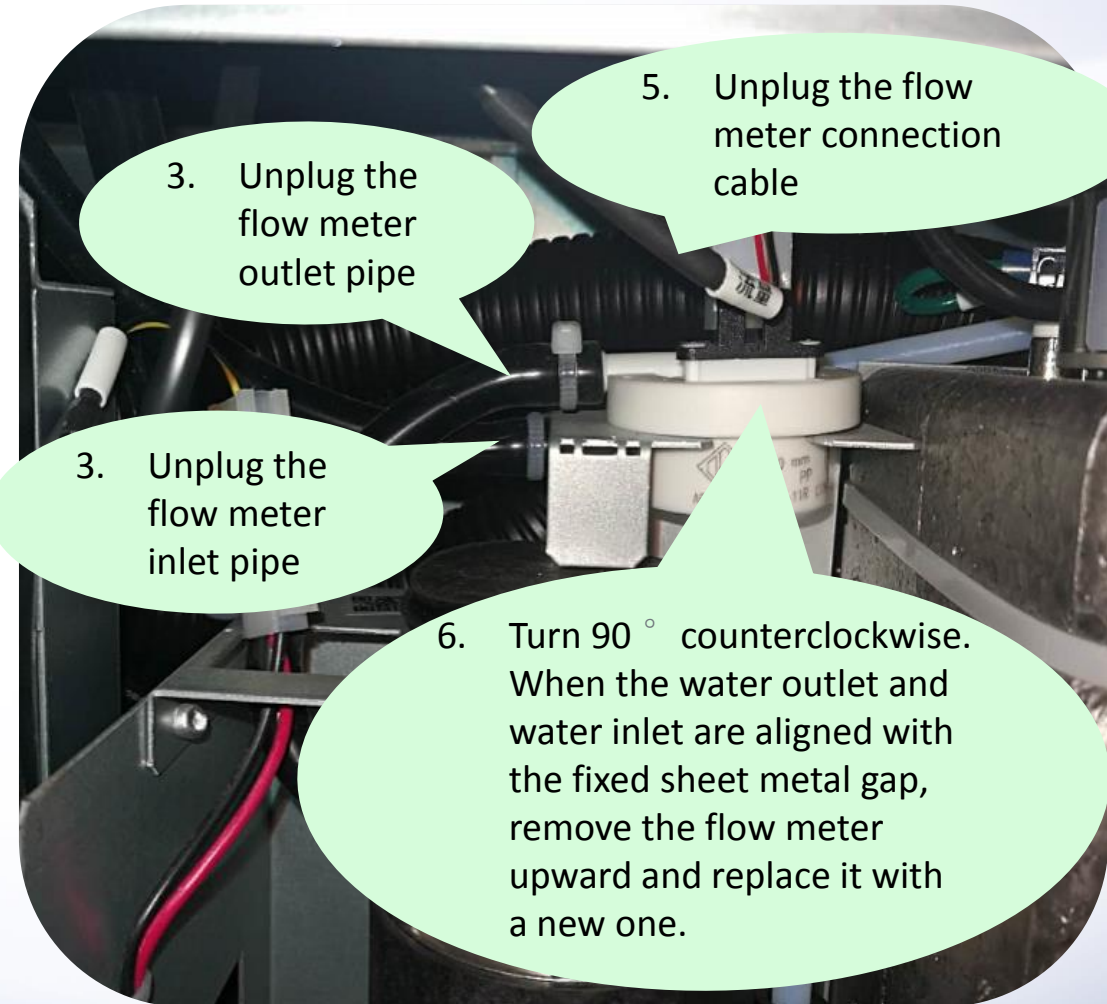
1. Access to machine management system, open machine door: Machine Test – Operation - Empty Air Break. Turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Unplug the flow meter inlet pipe
3. Unplug the flow meter outlet pipe
5. Unplug the flow meter connection cable
6. Turn 90 ° counterclockwise. When the water outlet and water inlet are aligned with the fixed sheet metal gap, remove the flow meter upward and replace it with a new one.

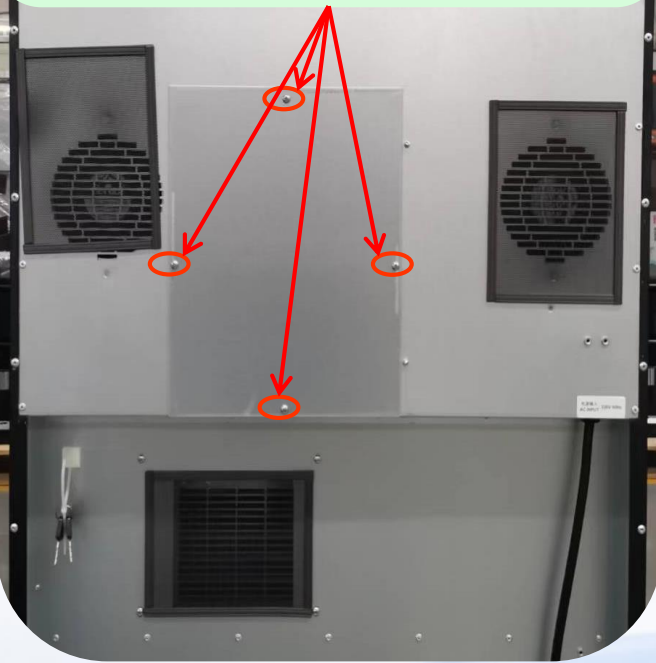


After replacing the flow meter, reset the machine parts, power on, and click [Machine Cleaning]

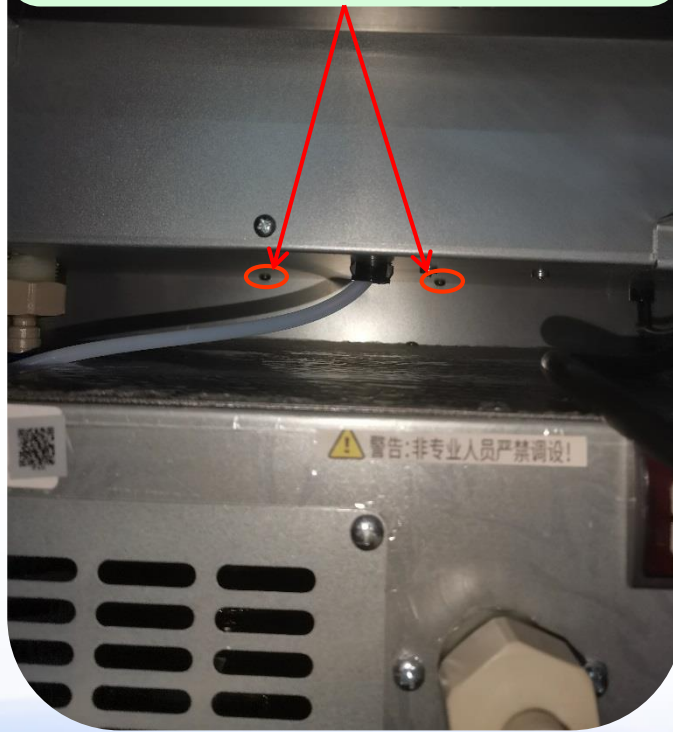
ATTENTION: Make marks before unplugging, and do not insert the wrong place for the outlet and inlet pipes

Non-return valve replacement manual

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



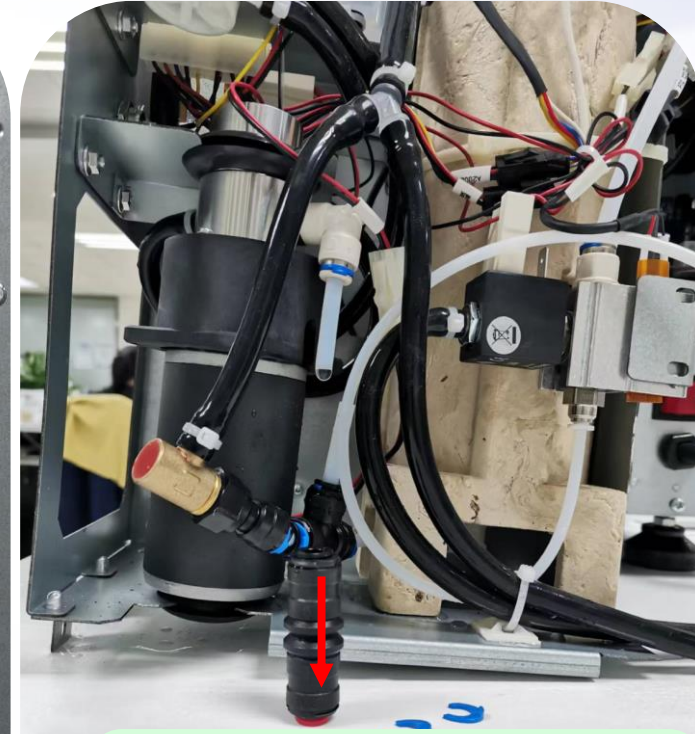
2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Take out the blue snap and pull out the white pipe



4. Install the non-return valve in the direction indicated when replacing it.



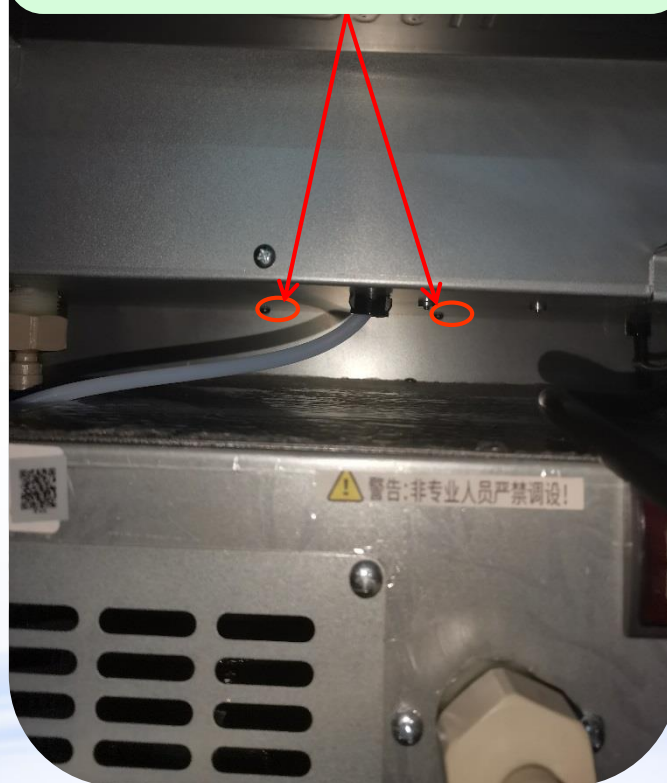
After replacing the non-return valve, reset the machine parts, power on, and click [Machine Cleaning]

Safety valve replacement manual

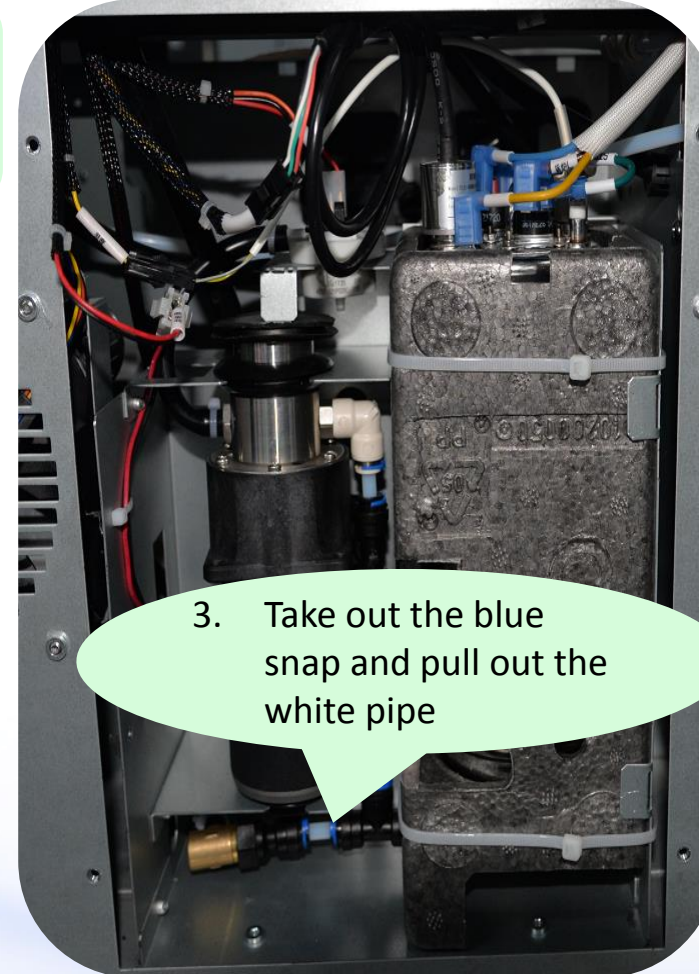
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



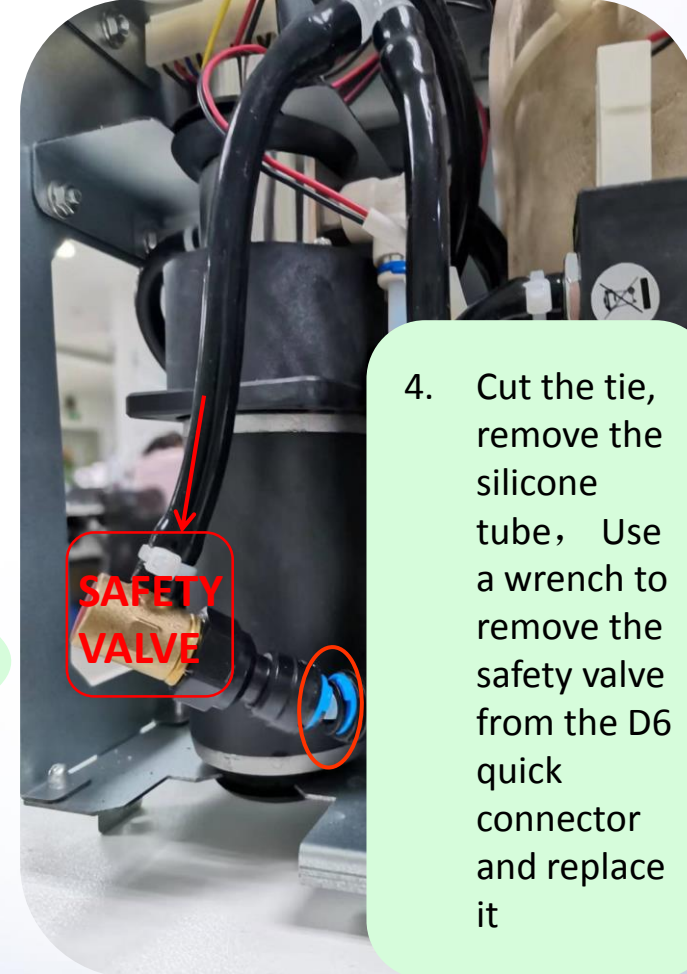
2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Take out the blue snap and pull out the white pipe

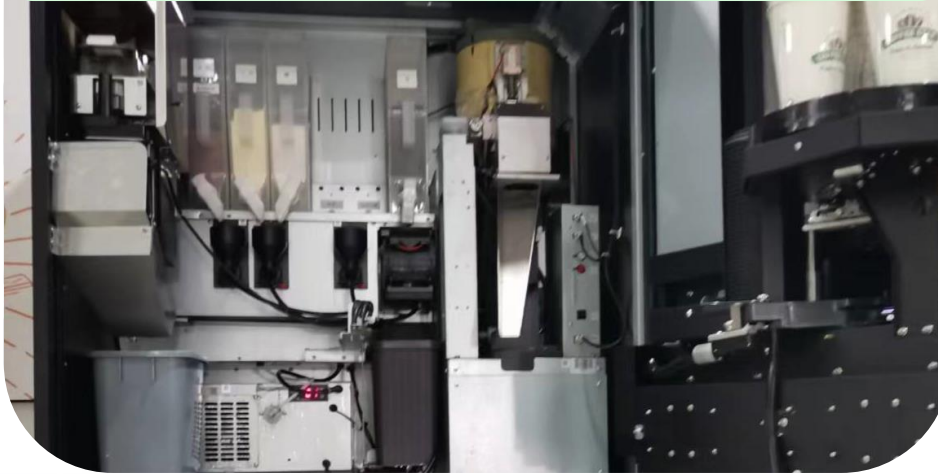


4. Cut the tie, remove the silicone tube, Use a wrench to remove the safety valve from the D6 quick connector and replace it



Water tank group, Water tank, Cover, Float switch replacement manual

1. Access to machine management system and empty the air break: Machine Test – Operation - Empty Air Break

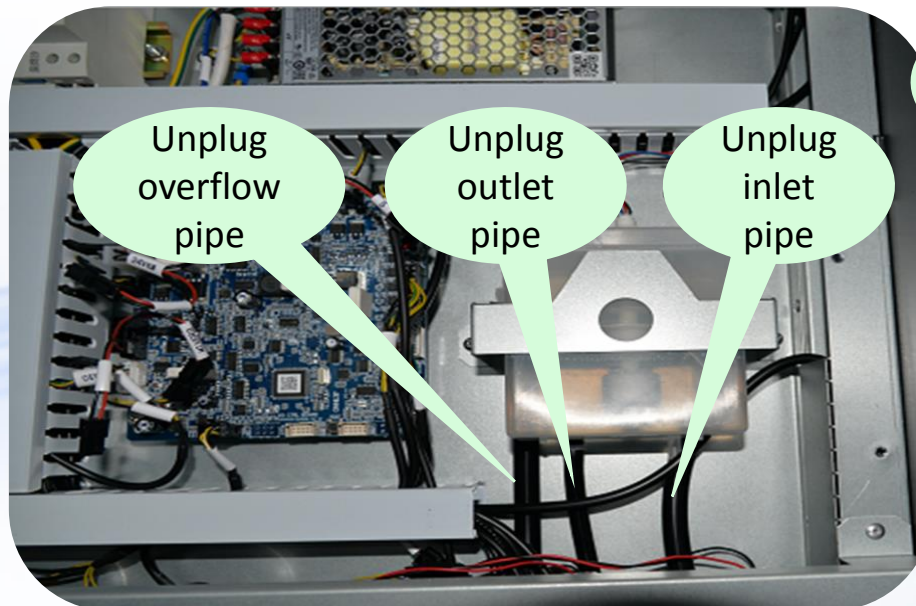


2. Click on [Open Machine Door], open and remove six canisters. Turn off the leakage protection switch.

3. Remove the screws and remove the cover plate

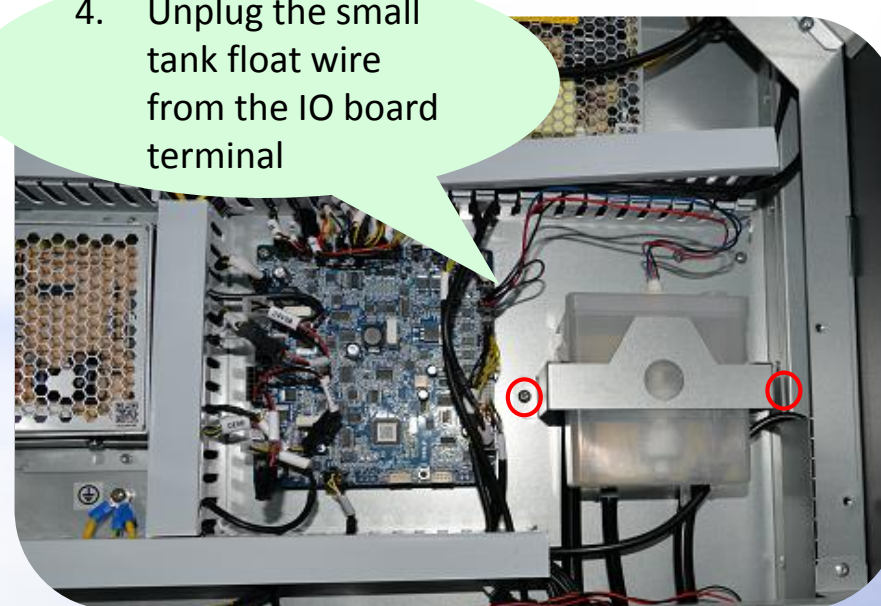


4. Unplug the small tank float wire from the IO board terminal



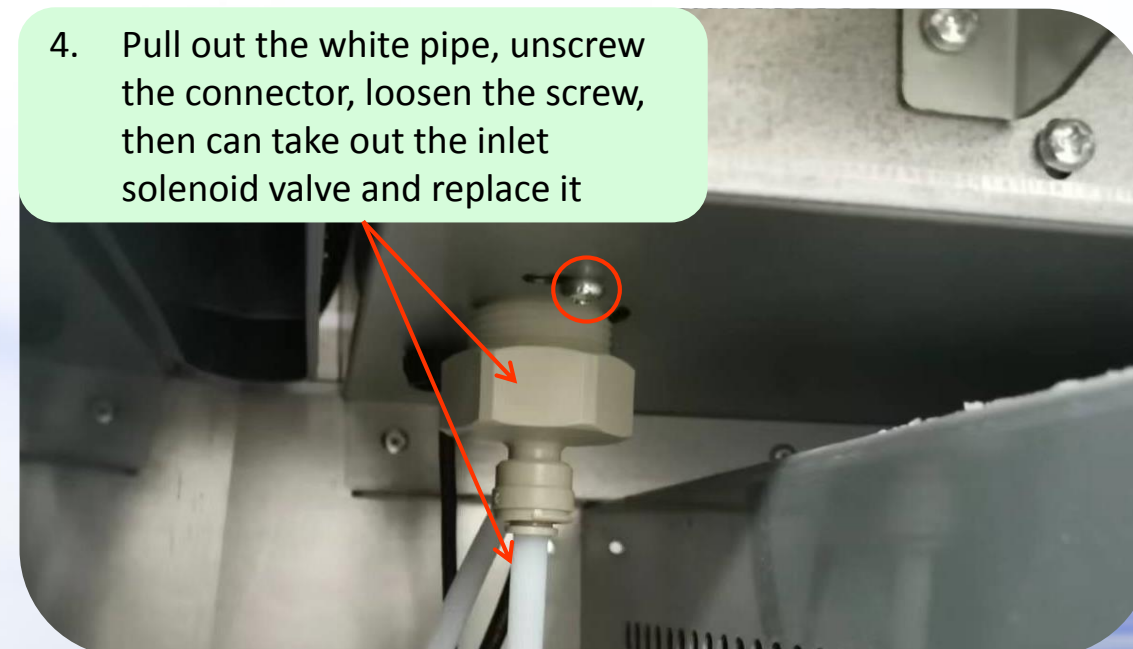
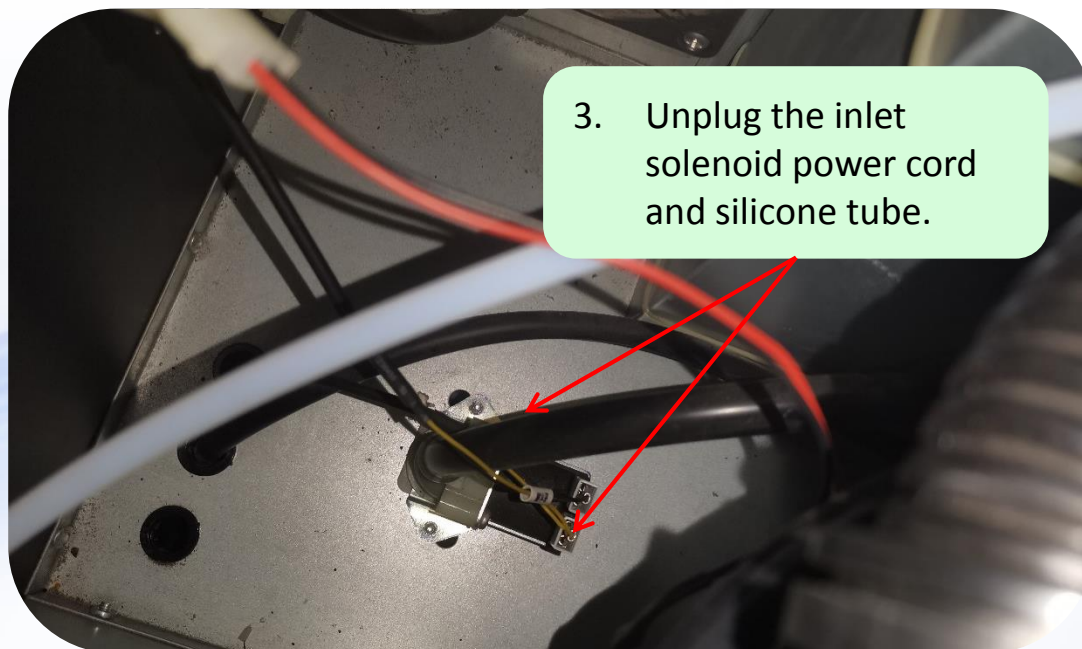
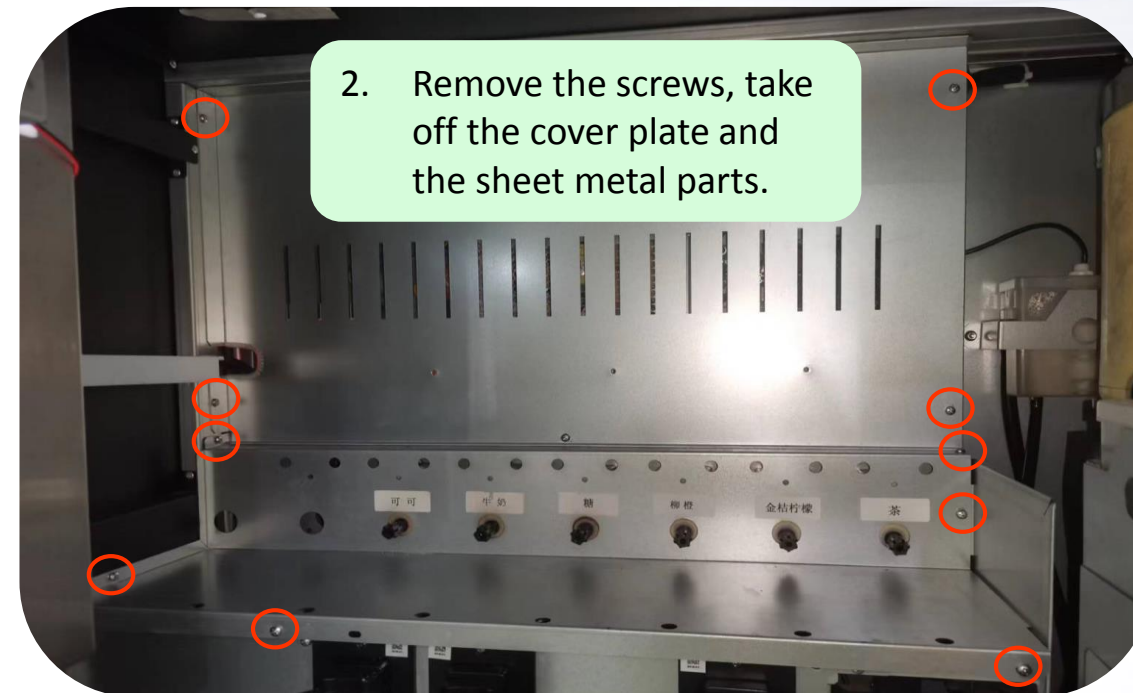
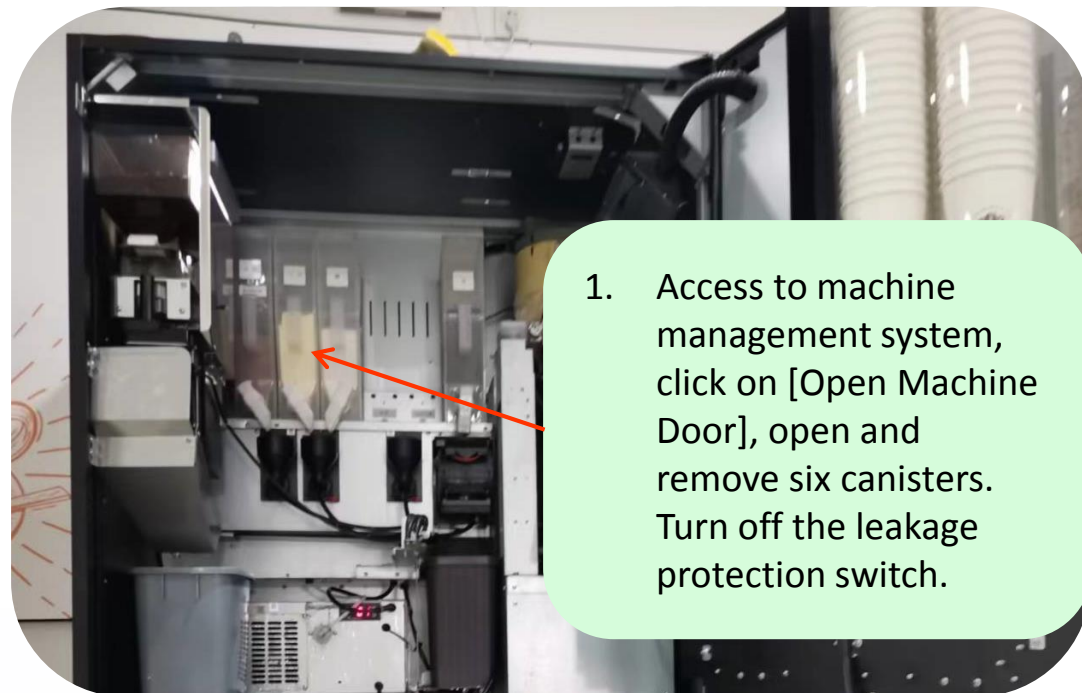
ATTENTION:

Make marks before unplugging, and do not insert the wrong place



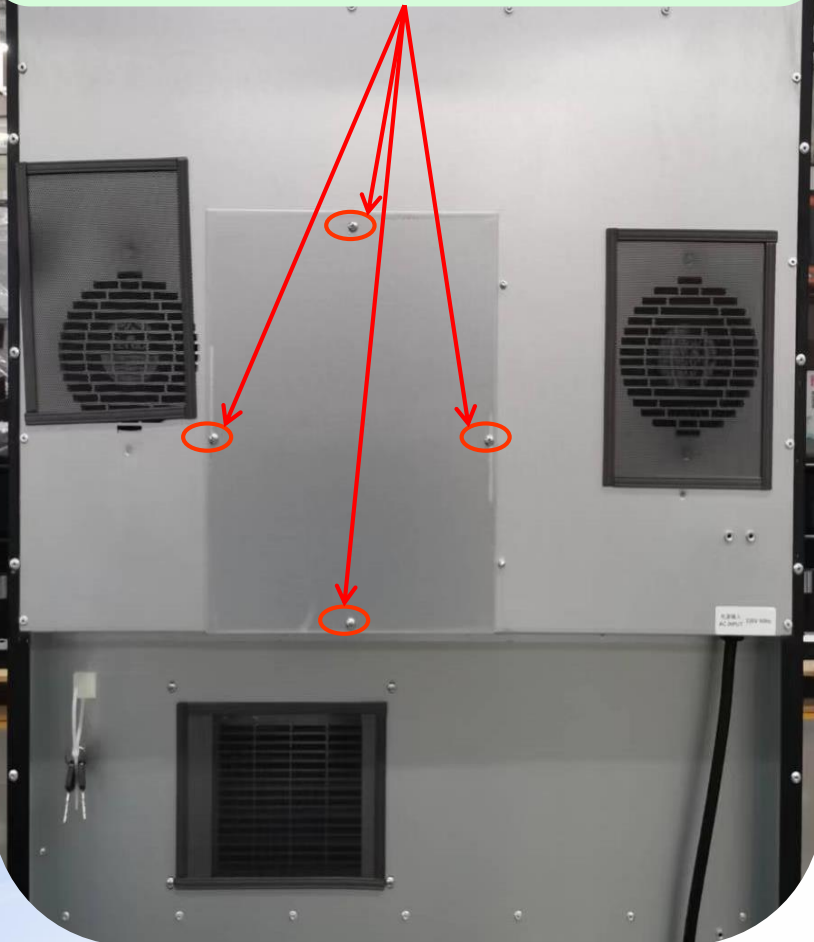
5. Remove the two nuts to remove the fixed sheet metal. Replace the water tank with a new one. After replacing the water tank. Reset the machine parts and power on

Inlet solenoid valve replacement manual

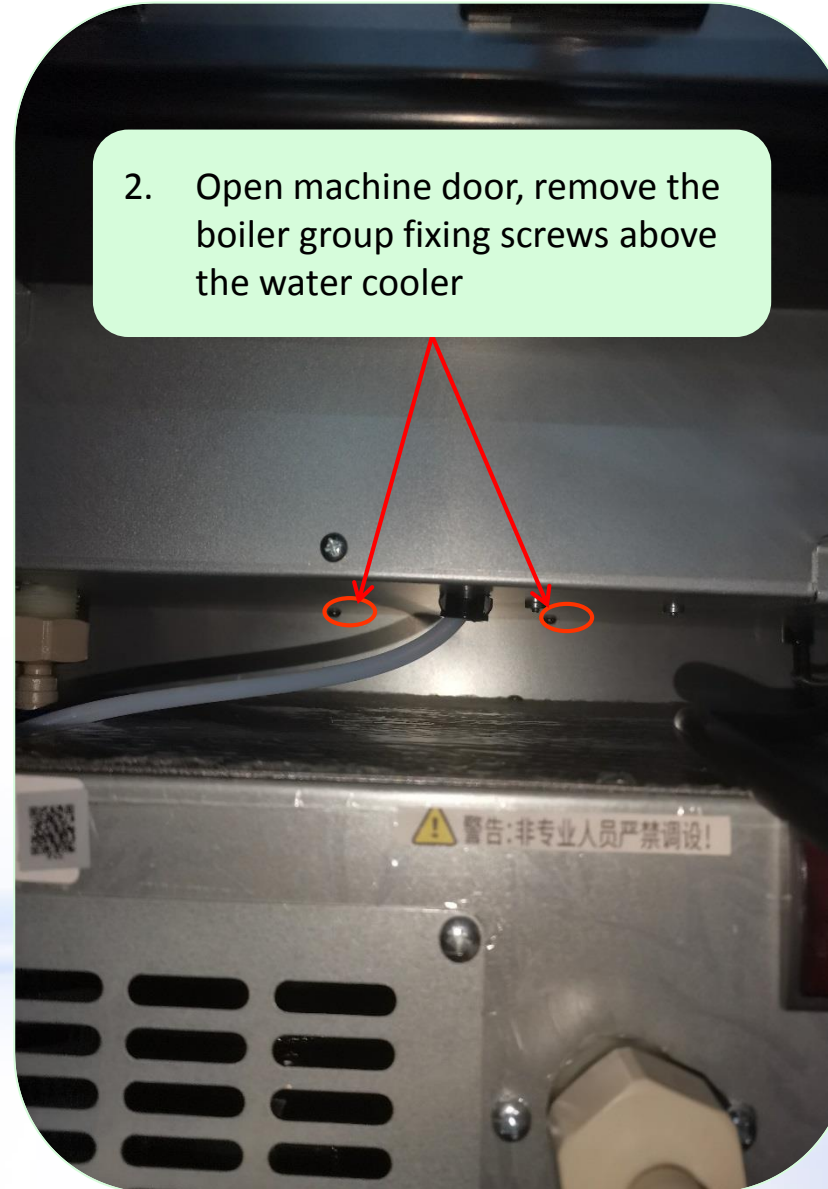


Boiler group replacement manual - 1

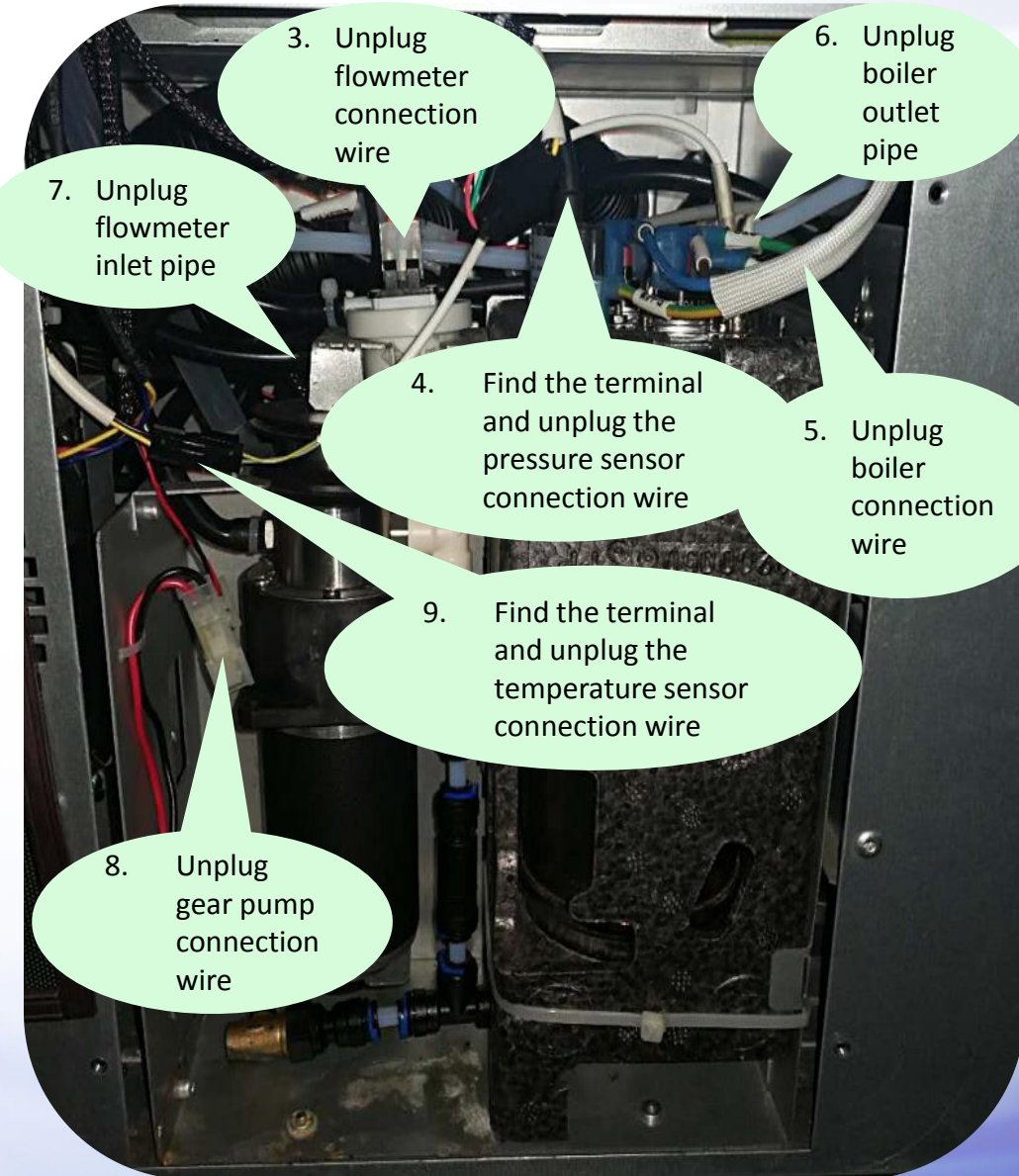
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate

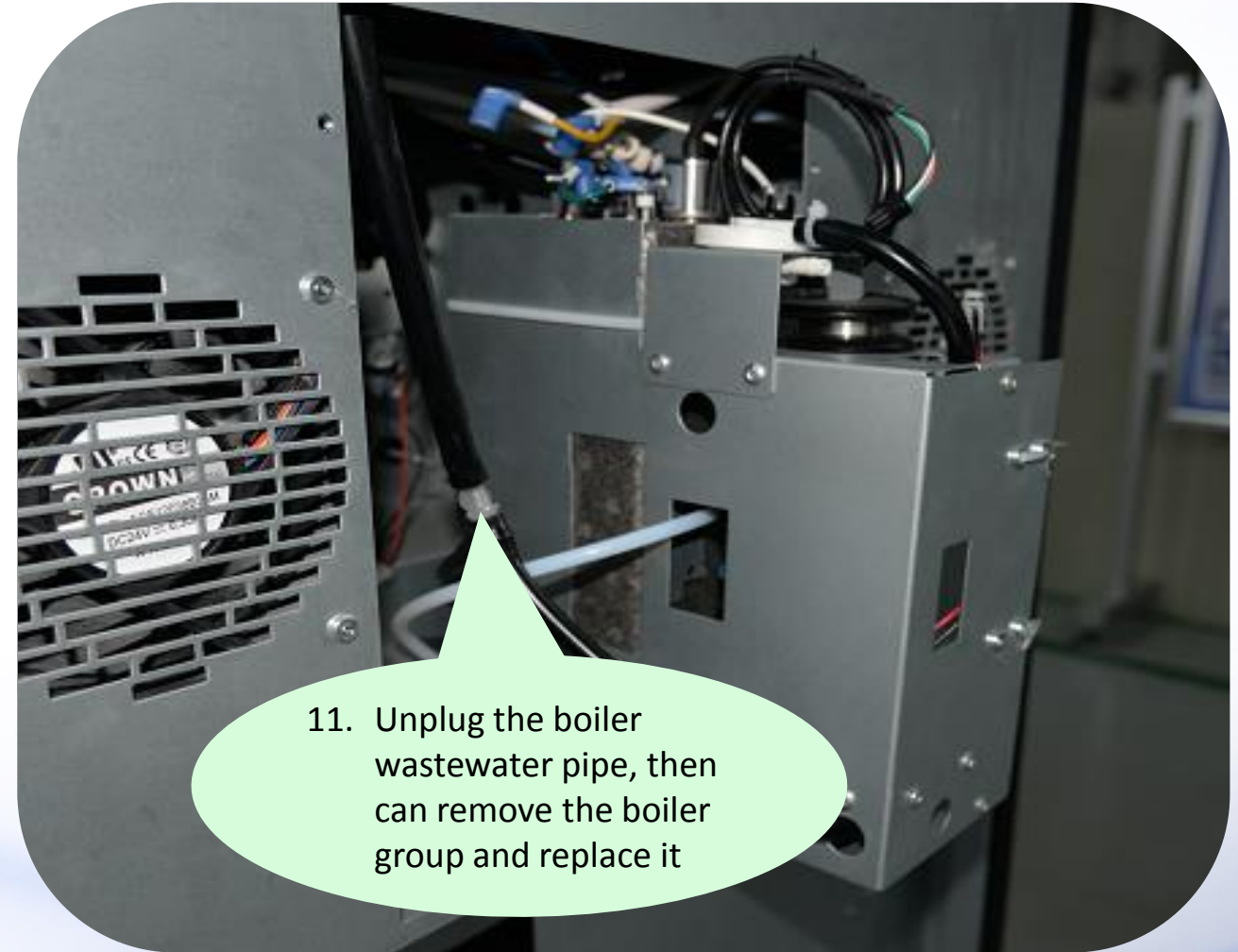
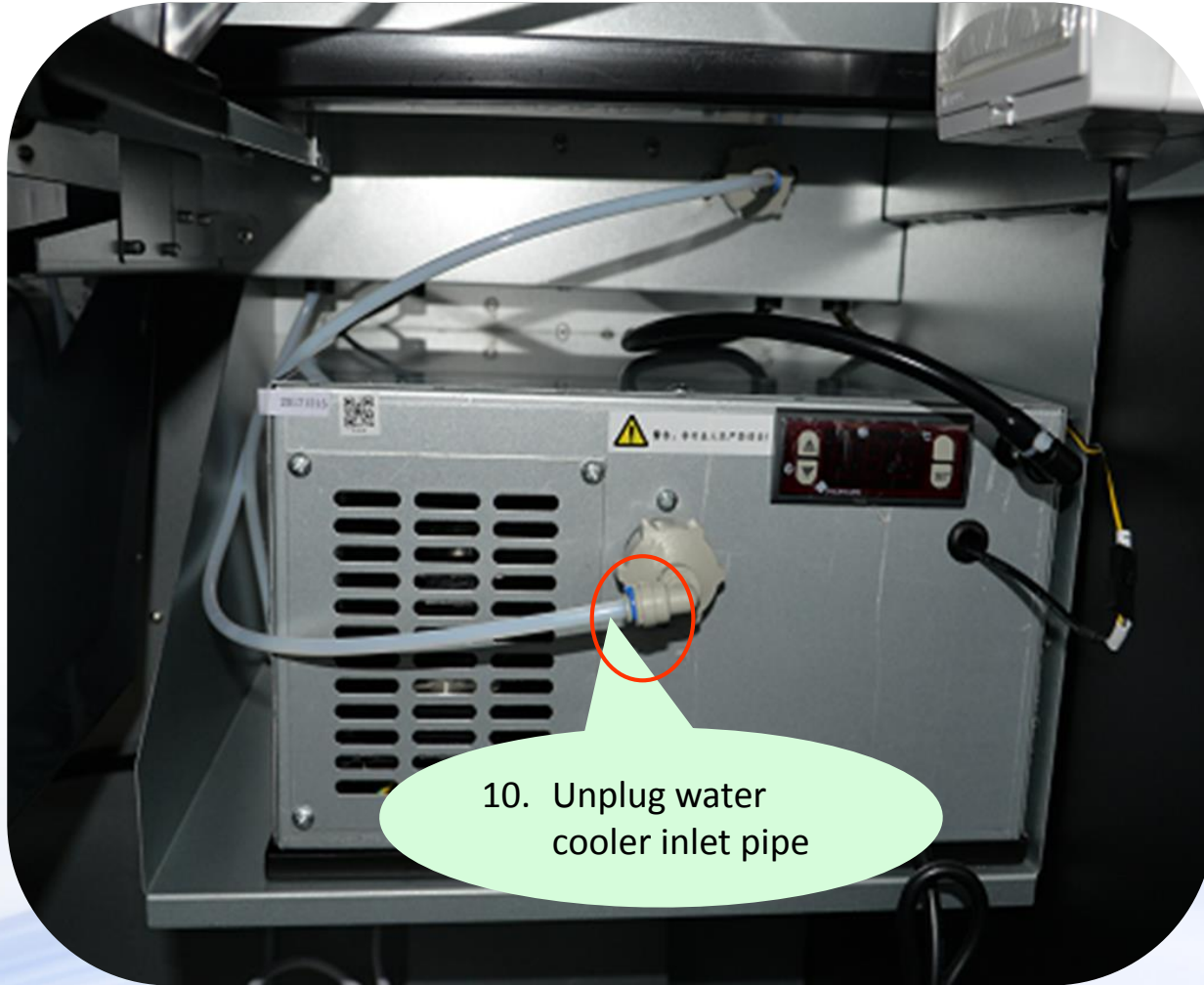


2. Open machine door, remove the boiler group fixing screws above the water cooler



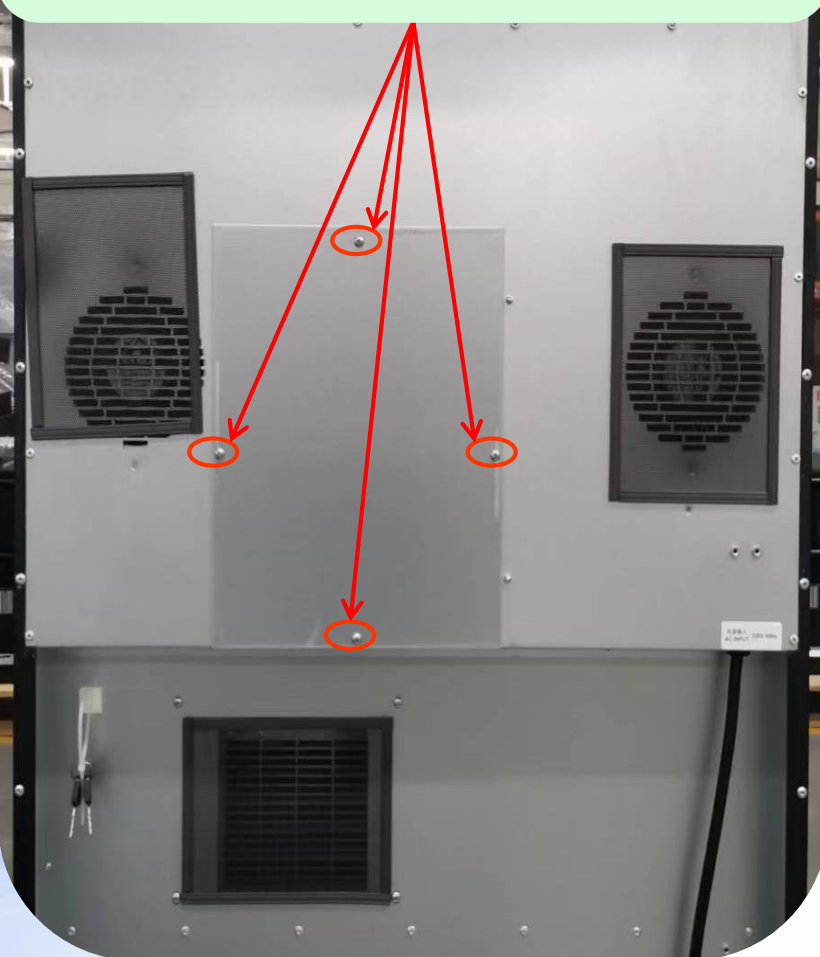
3. Unplug flowmeter connection wire
6. Unplug boiler outlet pipe
7. Unplug flowmeter inlet pipe
4. Find the terminal and unplug the pressure sensor connection wire
5. Unplug boiler connection wire
9. Find the terminal and unplug the temperature sensor connection wire
8. Unplug gear pump connection wire



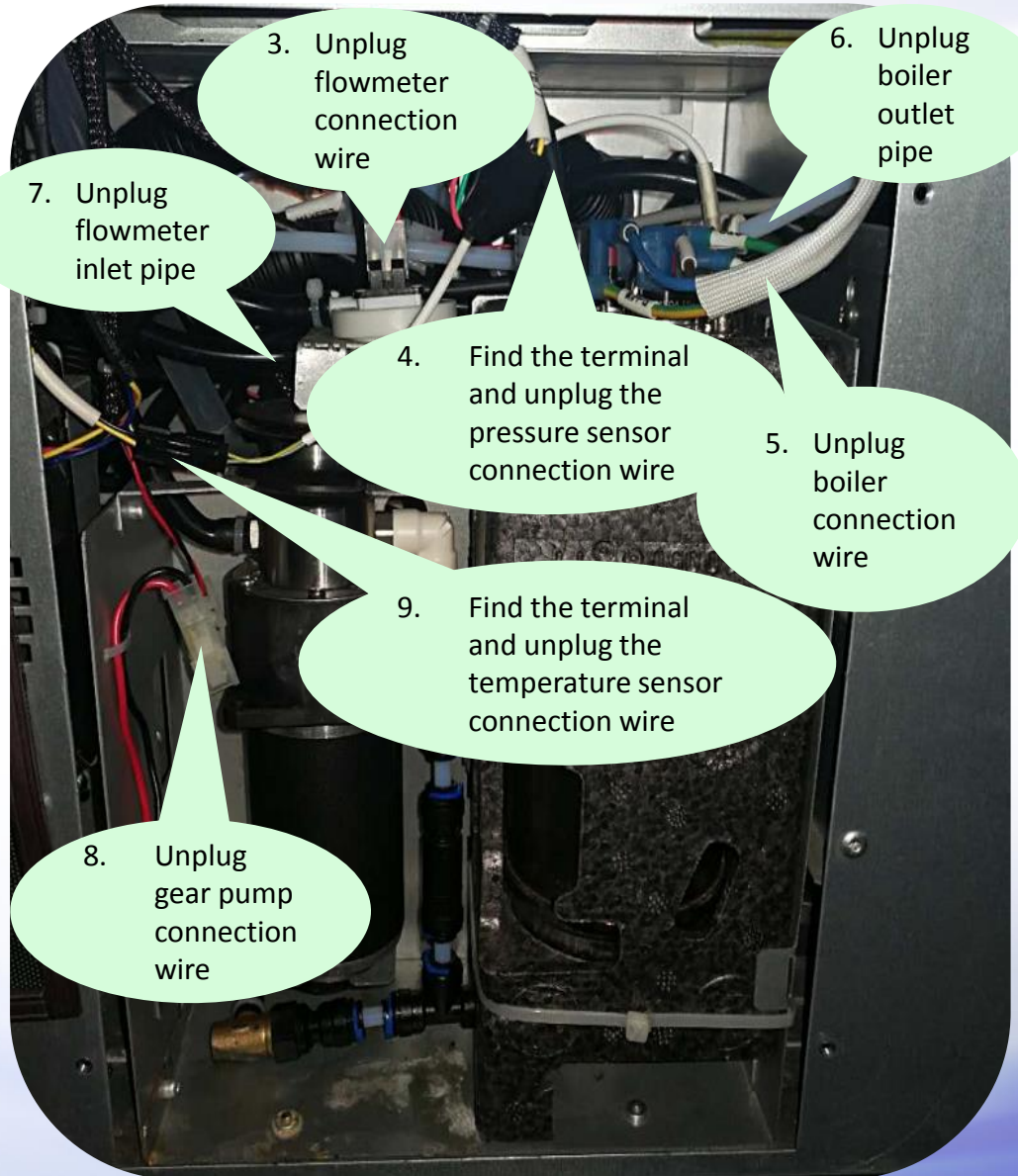
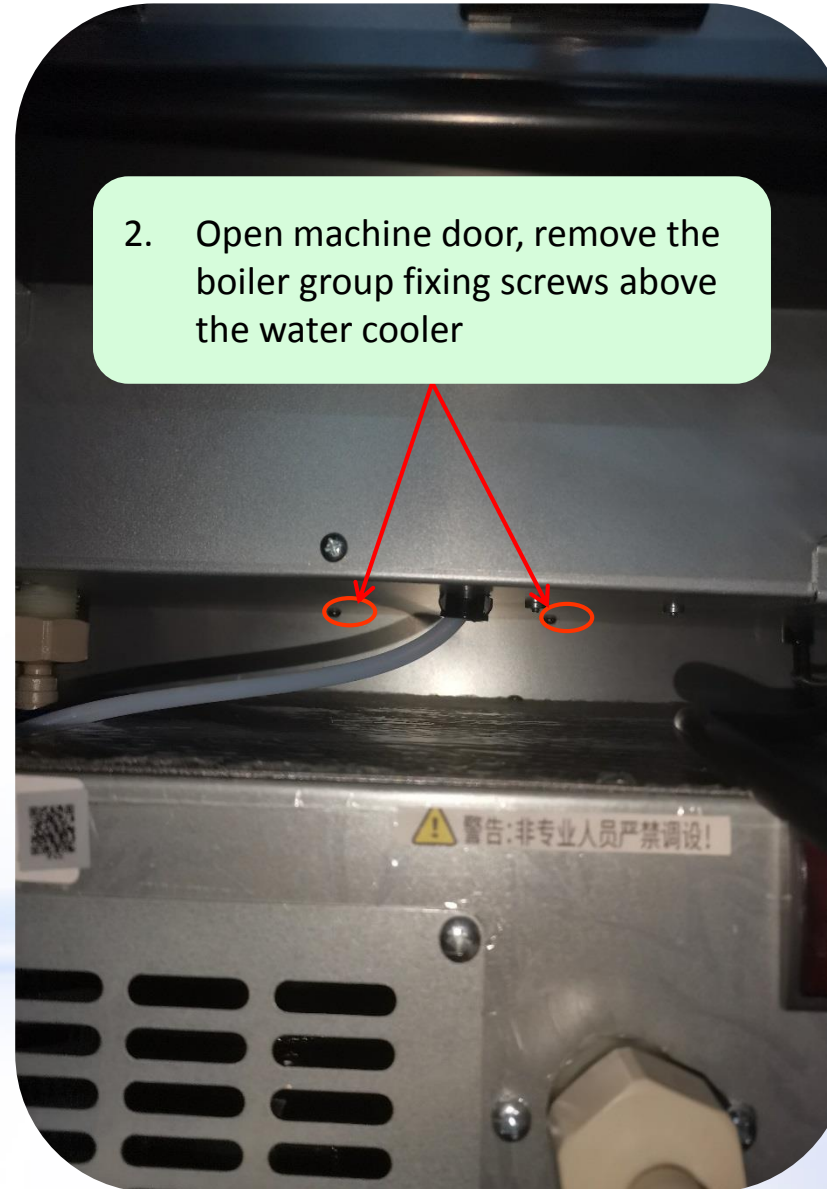


Boiler replacement manual - 1

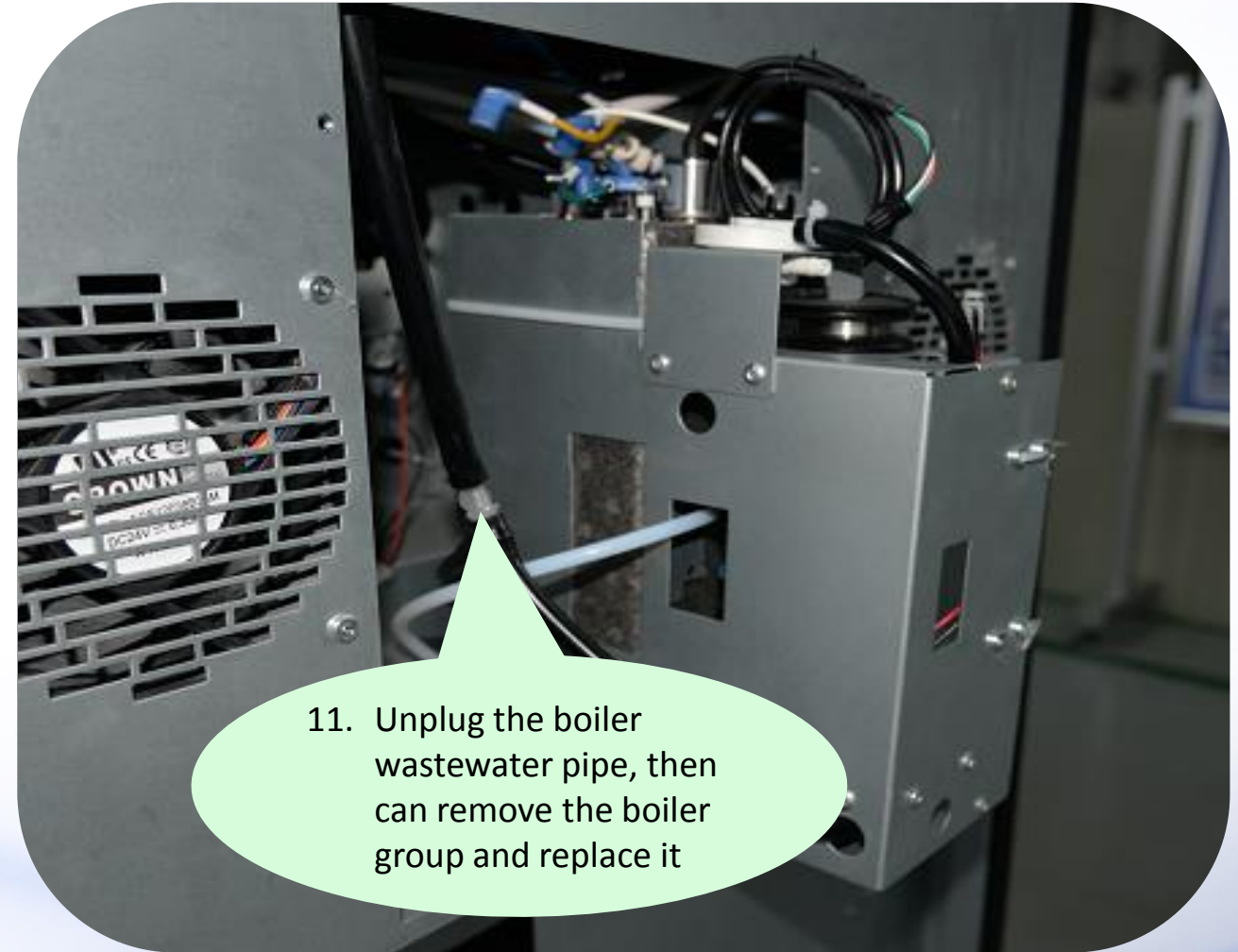
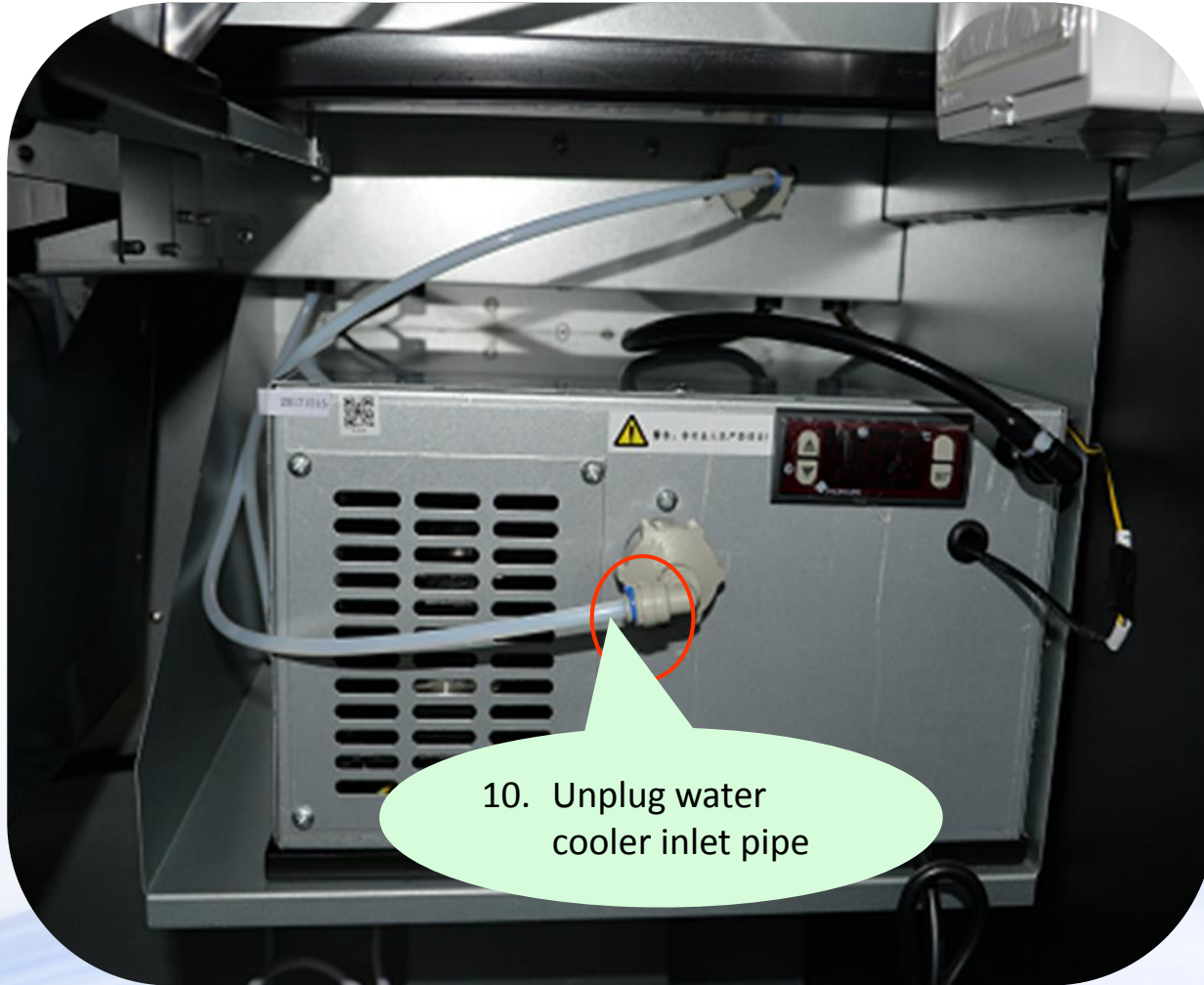
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



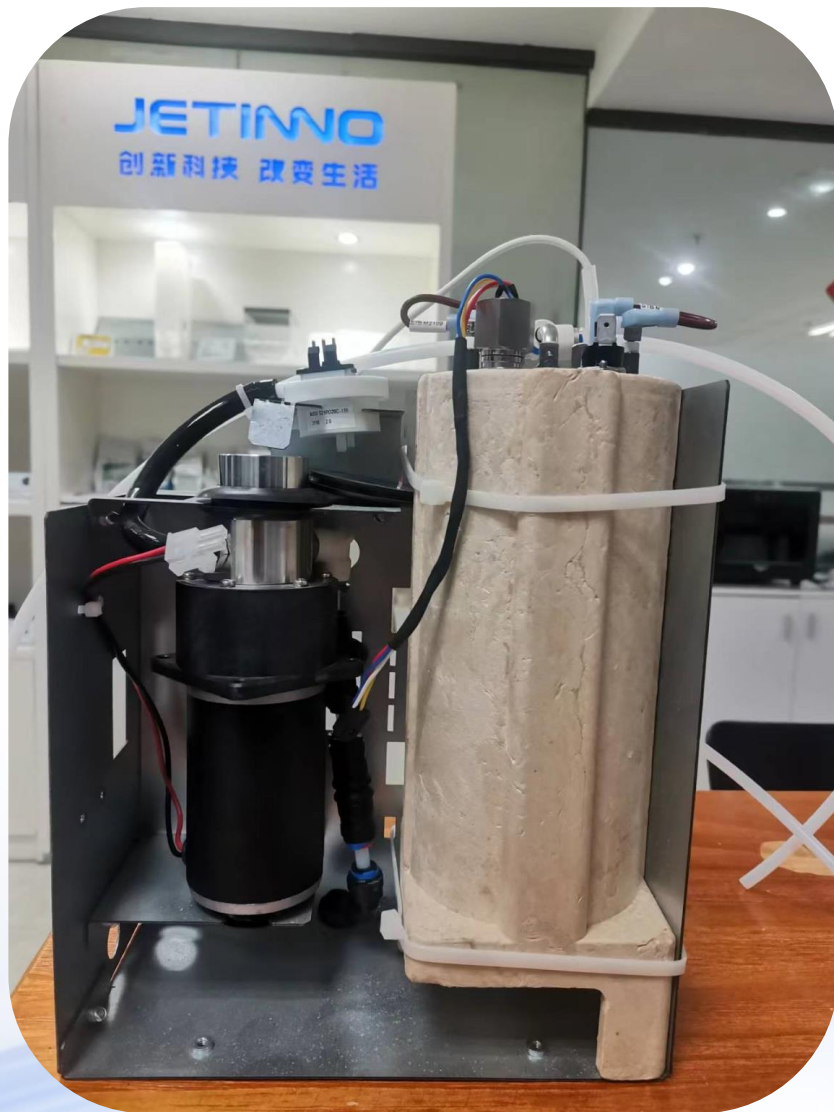
2. Open machine door, remove the boiler group fixing screws above the water cooler



Boiler replacement manual - 2



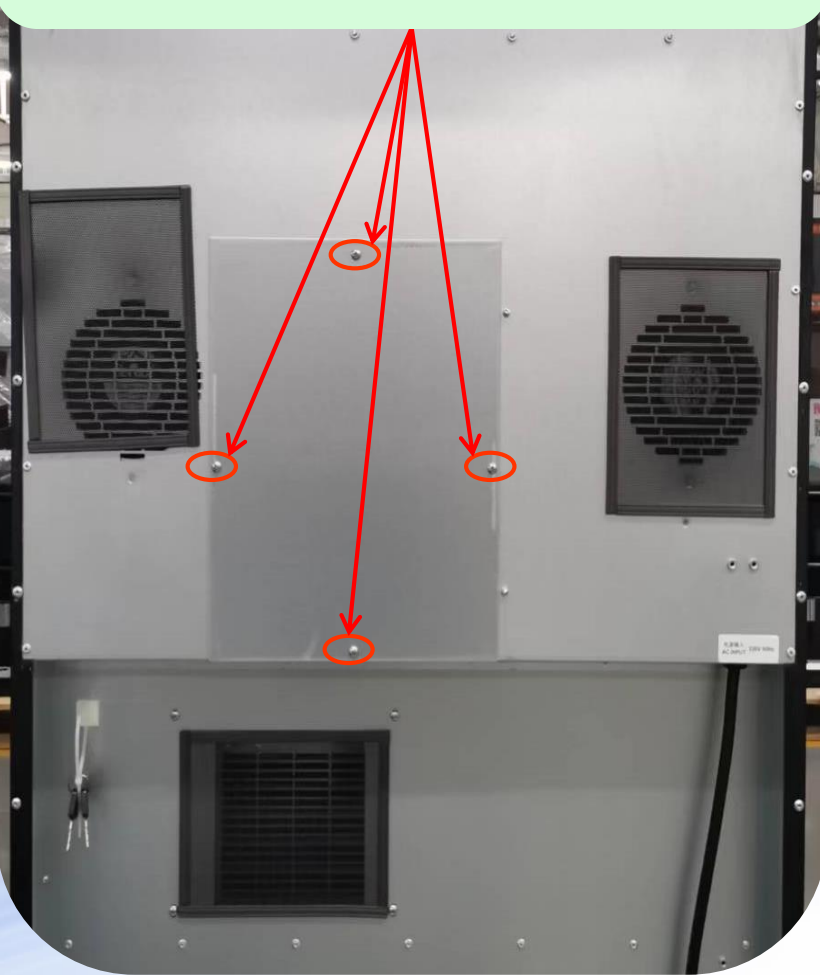
Boiler replacement manual - 3



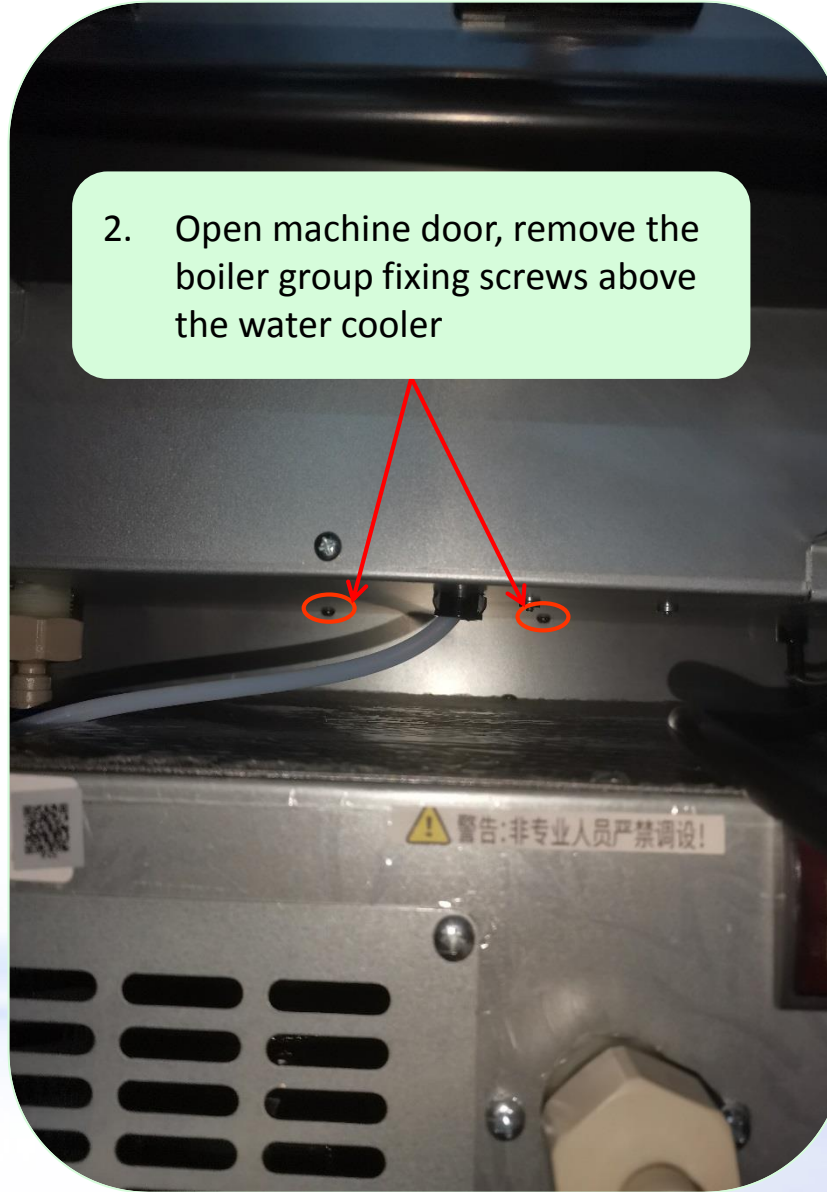
12. Cut the tie, remove the DPS boiler insulation left cover, remove the quick joint and take out the boiler. Remove the STB connection cable, thermostat, pressure sensor, and temperature sensor, install them on the new boiler, and reset the parts

Thermostat (PBR380V-120) replacement manual

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Unplug the connector of the thermostat

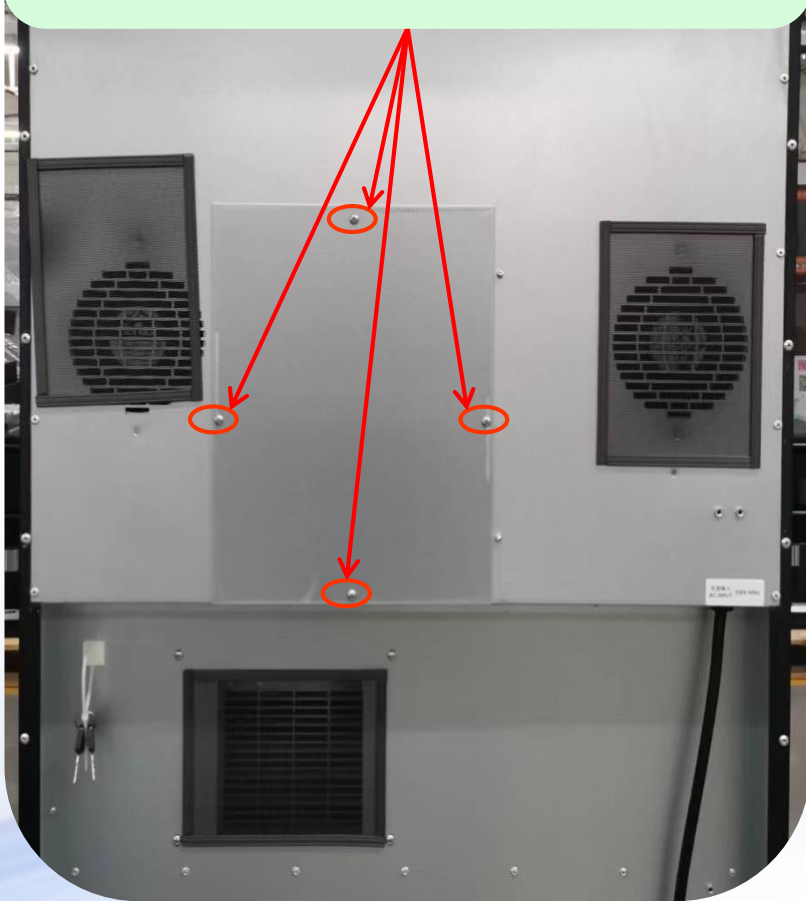


4. Remove the nut, apply heat-conductive silicone grease to the bottom of the new thermostat, then install it back to its original position and secure it with a nut, and finally plug back the control cable.

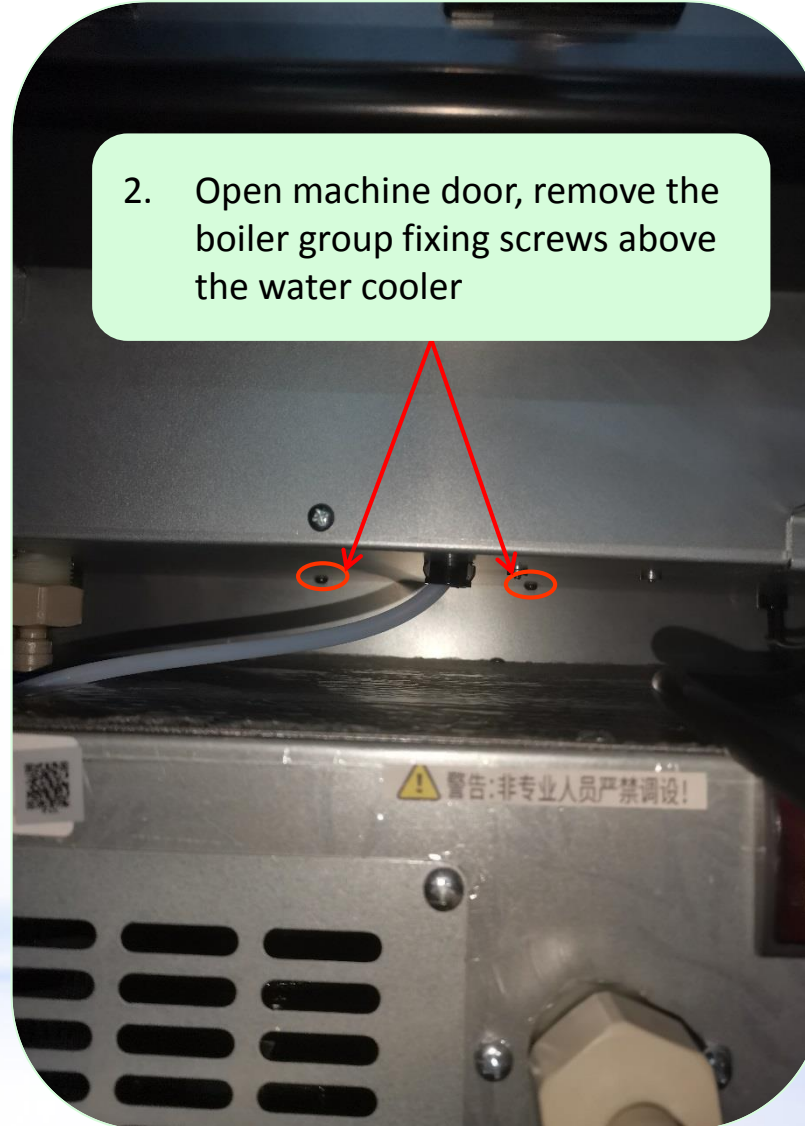
5. After replacing the thermostat, reset the machine parts, power on, and click [Machine Cleaning]

Pressure sensor replacement manual

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Unplug the pressure sensor connection wire

4. Remove the pressure sensor by turning counterclockwise with a Powerful pliers or vise pliers

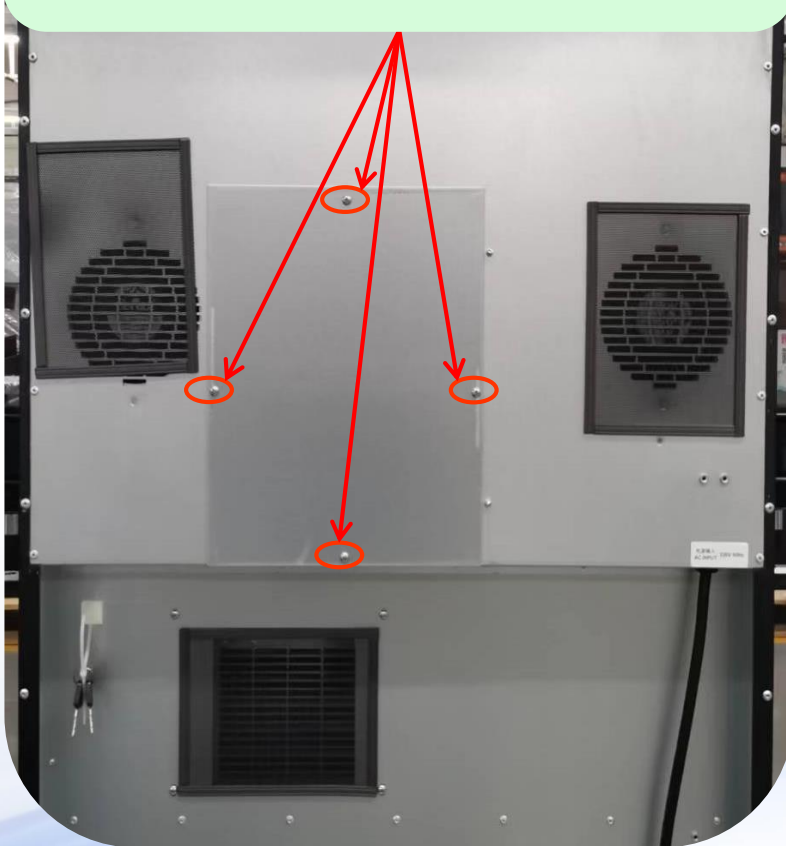
5. Unplug boiler connection wire

CAUTION: Boiler high surface temperature, beware of burns.

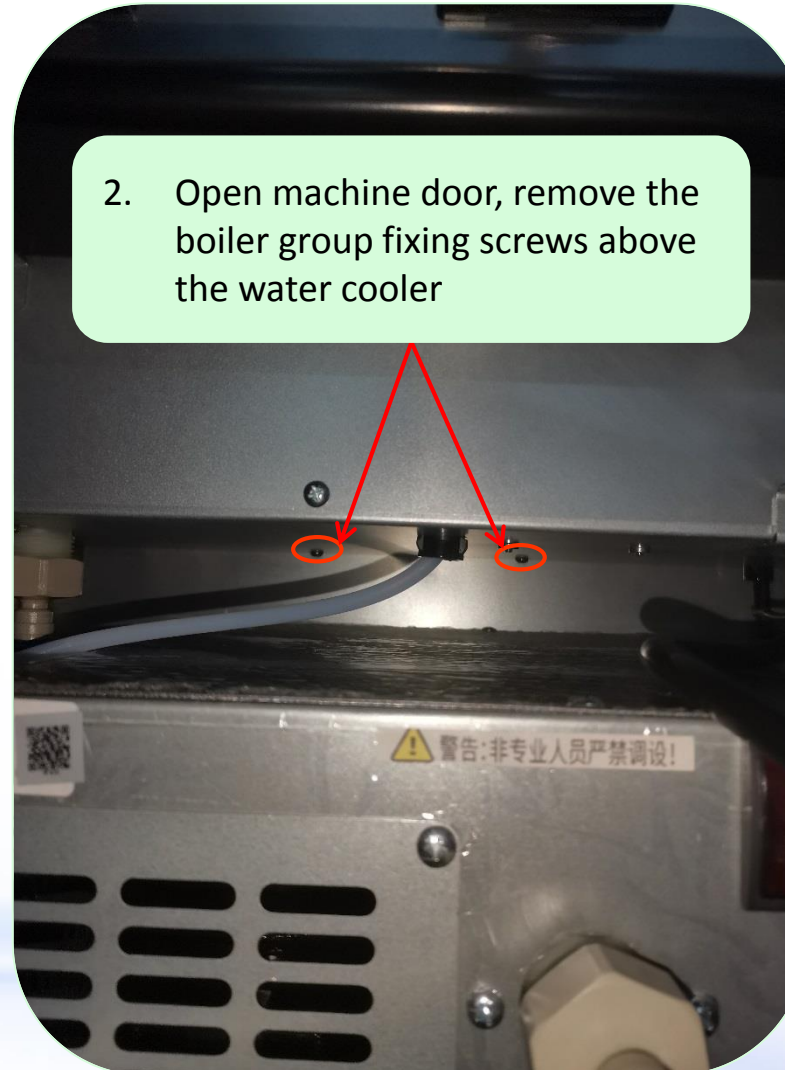
5. After replacing the pressure sensor, reset the machine parts, power on, and click [Machine Cleaning]

Temperature sensor replacement manual

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Unplug temperature sensor connector

5. Use a wrench to remove the temperature sensor by turning it counterclockwise.

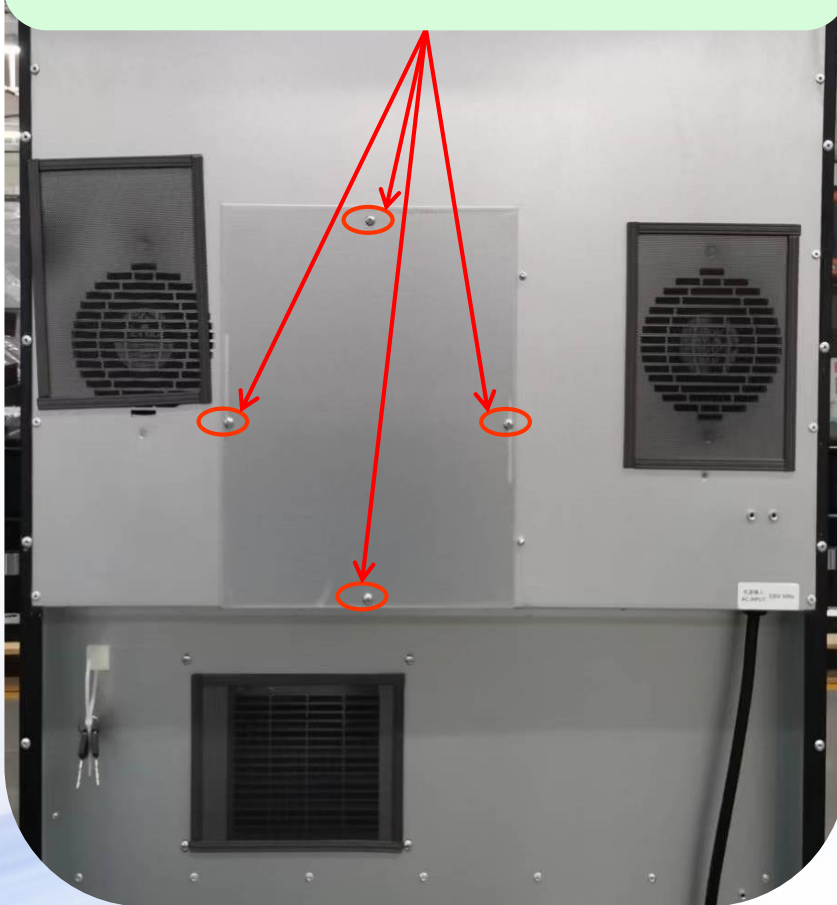
4. Unplug boiler connection wire

CAUTION: Boiler high surface temperature, beware of burns.

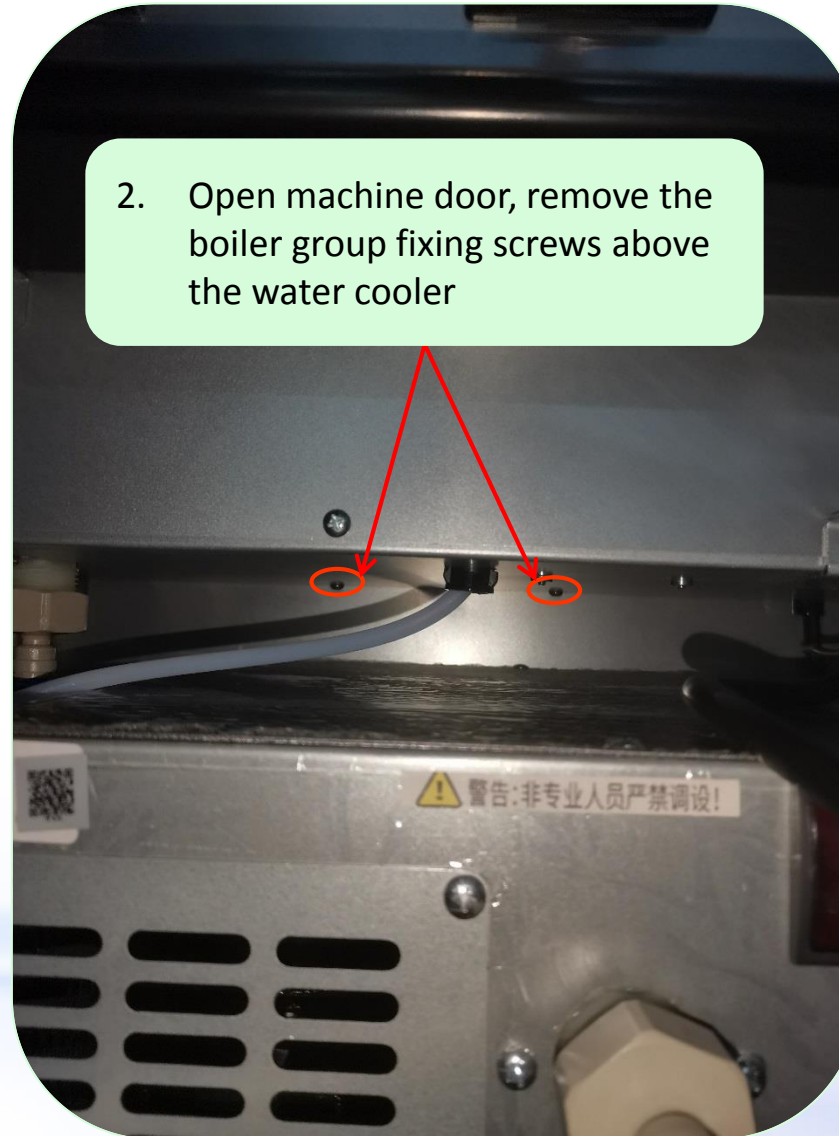
6. After replacing the temperature sensor, reset the machine parts, power on, and click [Machine Cleaning]

STB connector replacement manual

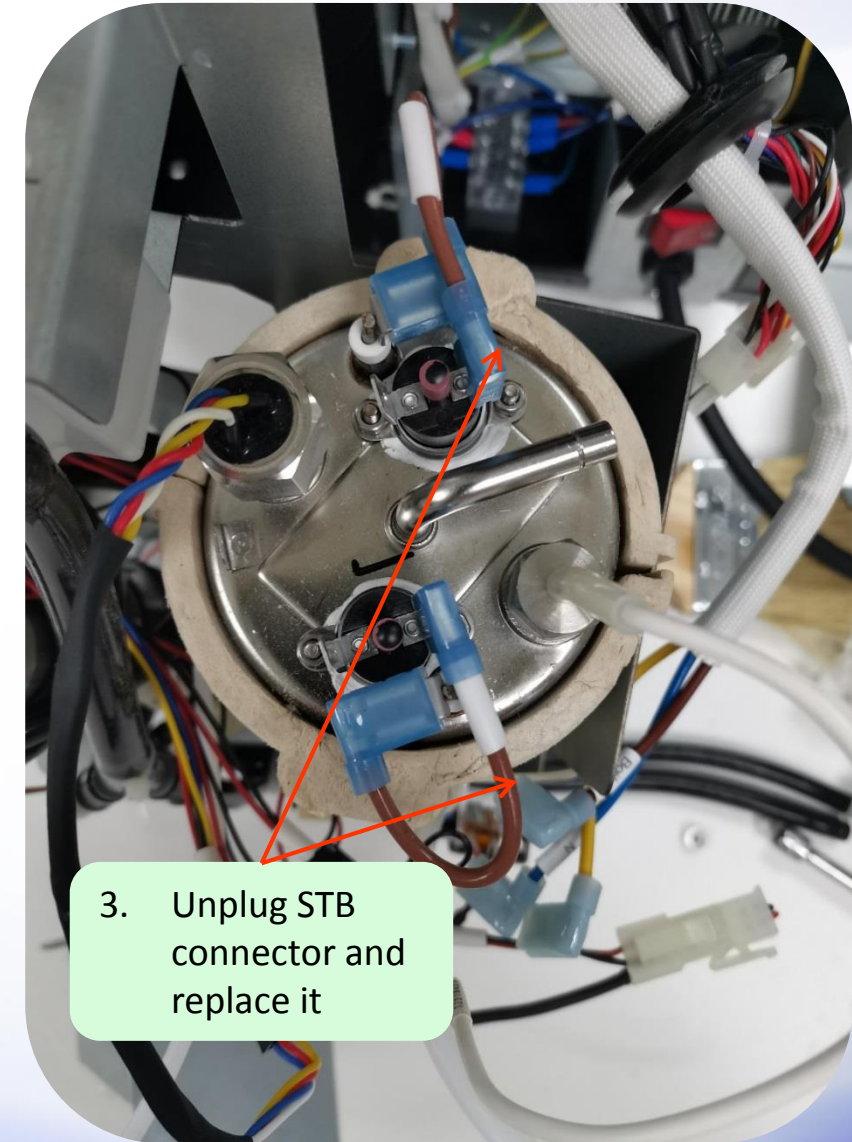
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler

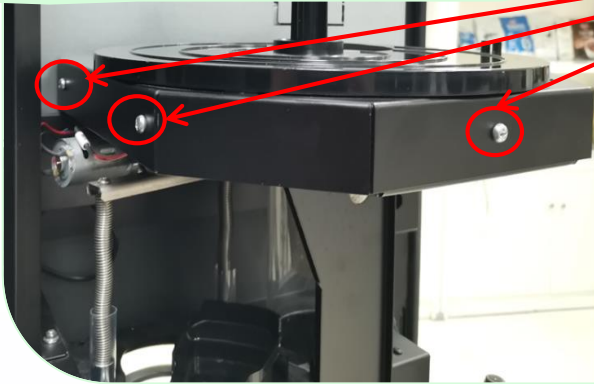


3. Unplug STB connector and replace it

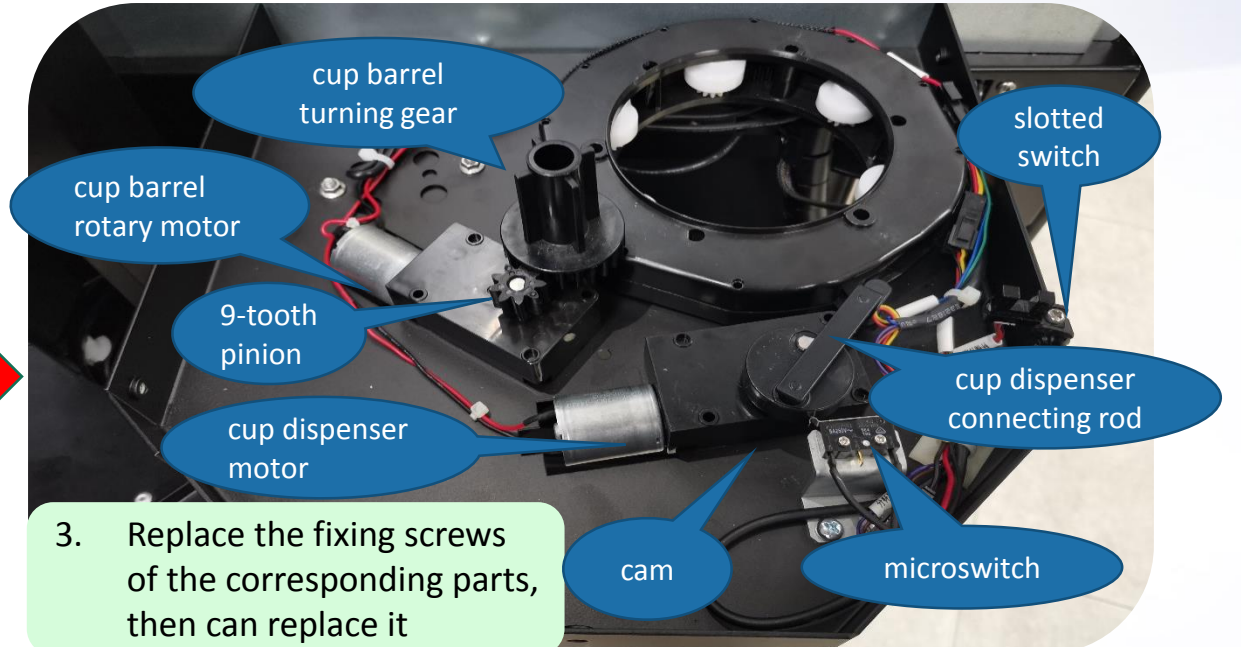
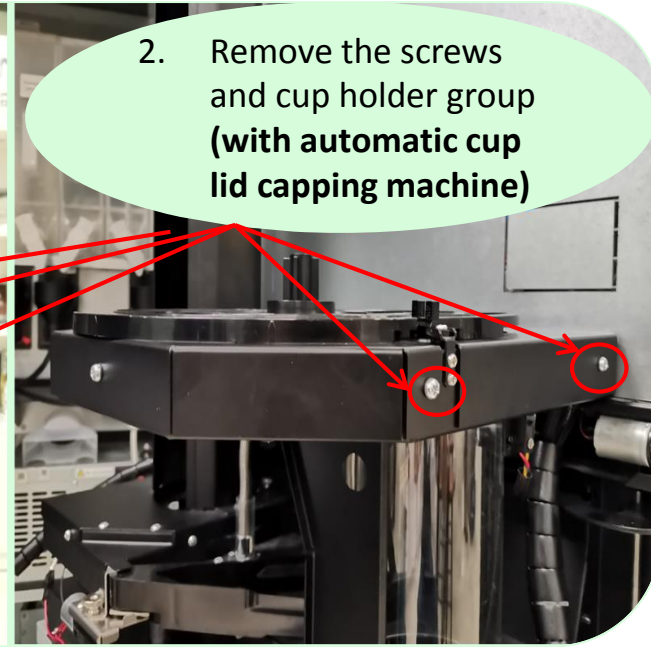


Cam, Cup dispenser connecting rod, Turning gear, Drive pinion, Cup lid dispenser group replacement manual

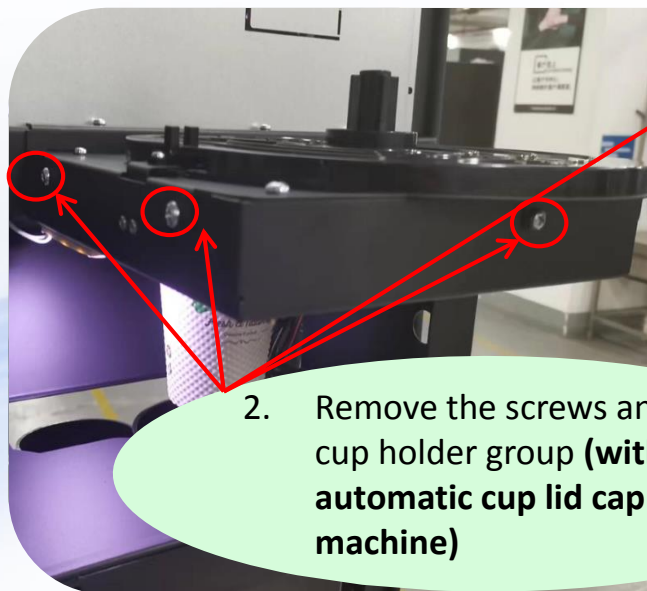
1. Access machine management system, click [Open Machine Door]. Remove cup barrel; turn off the power. Remove the screws according to the structure of the plate



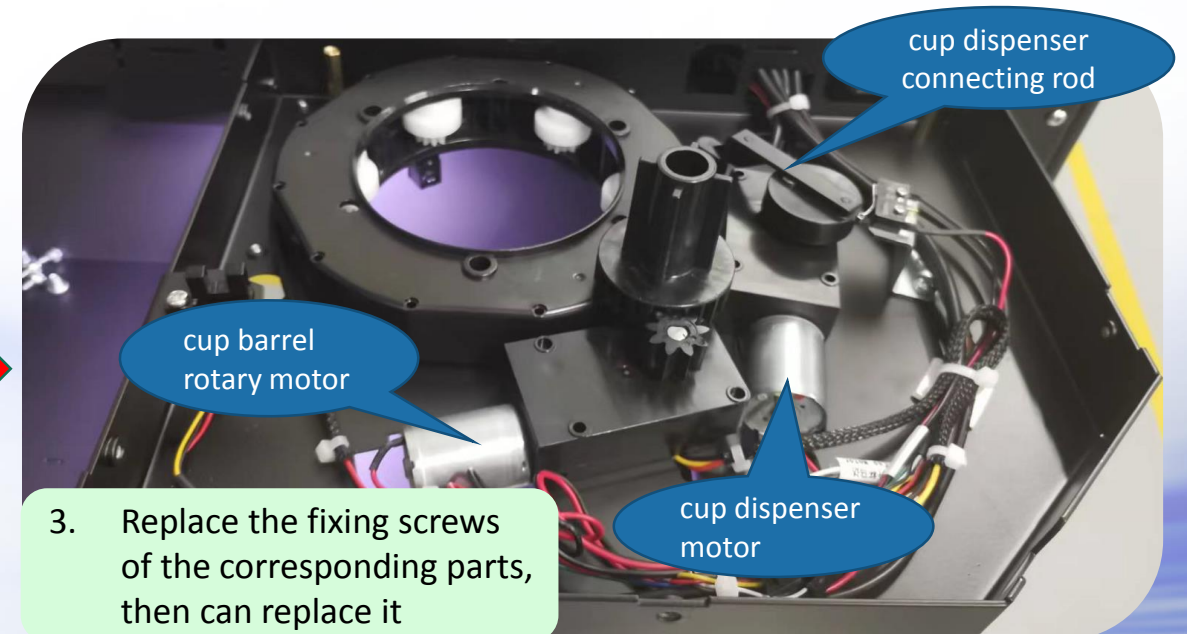
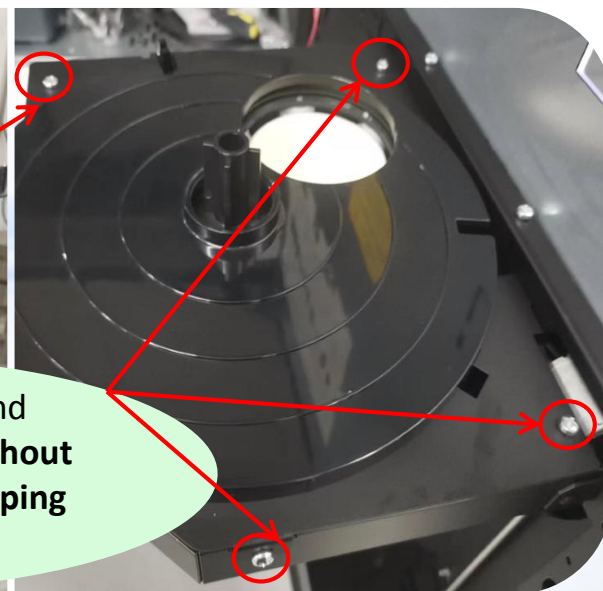
2. Remove the screws and cup holder group **(with automatic cup lid capping machine)**



3. Replace the fixing screws of the corresponding parts, then can replace it



2. Remove the screws and cup holder group **(without automatic cup lid capping machine)**



3. Replace the fixing screws of the corresponding parts, then can replace it

Adjustable cup-holder group replacement manual



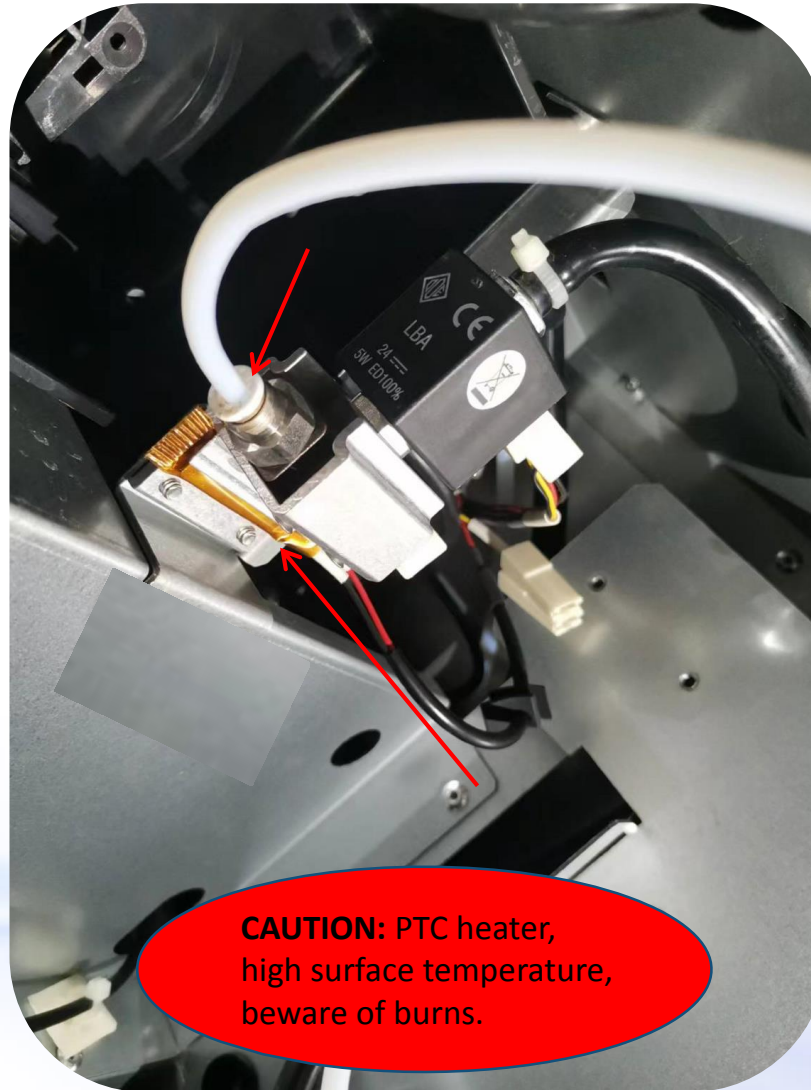
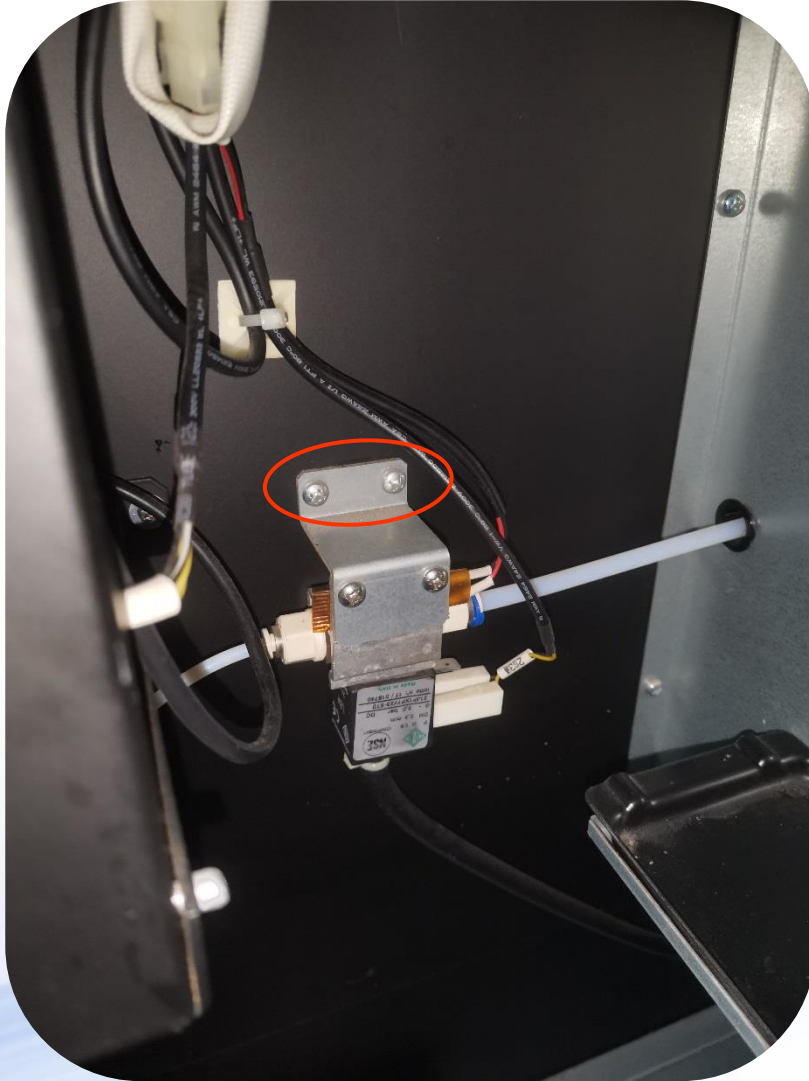
1. Access to machine management system, open cup door. Hold the bottom of cup-holder and pull it with force to the right, then can clean or replace it



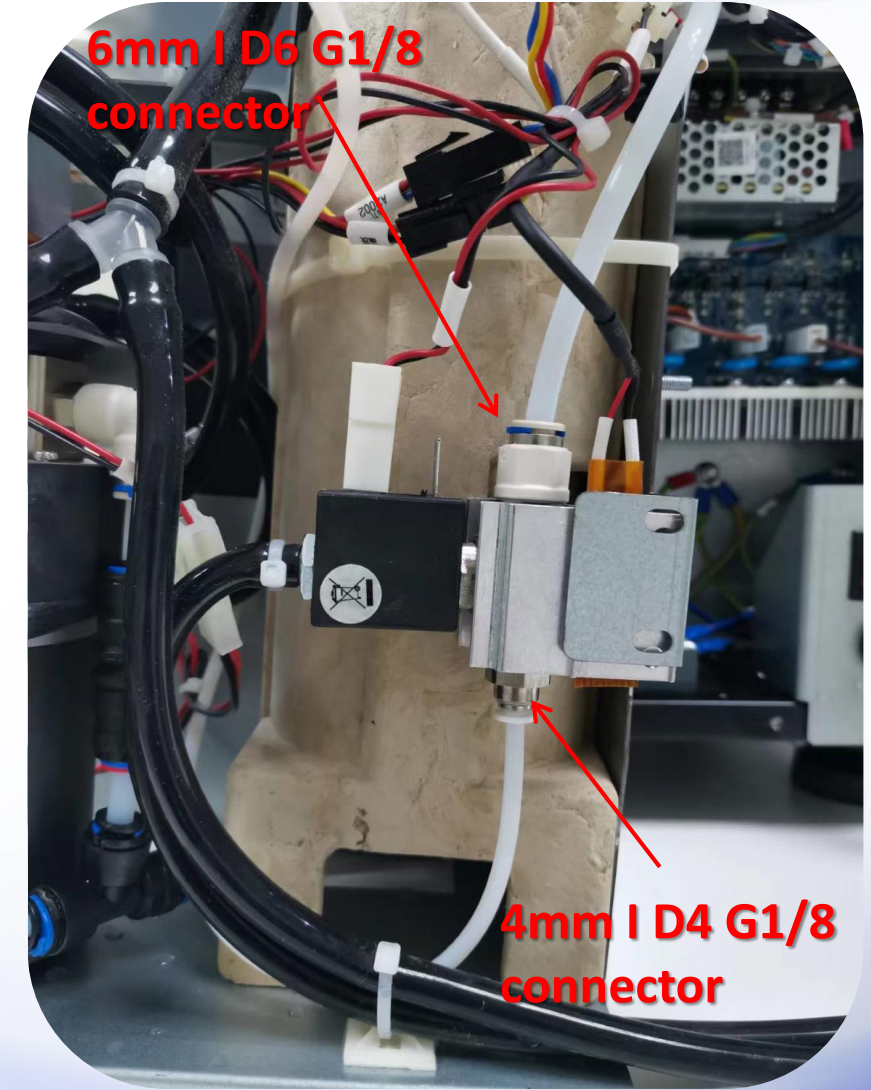
2. Change screw position to adjust height.



6mm I D6 G1/8 connector & 4mm I D4 G1/8 connector replacement manual



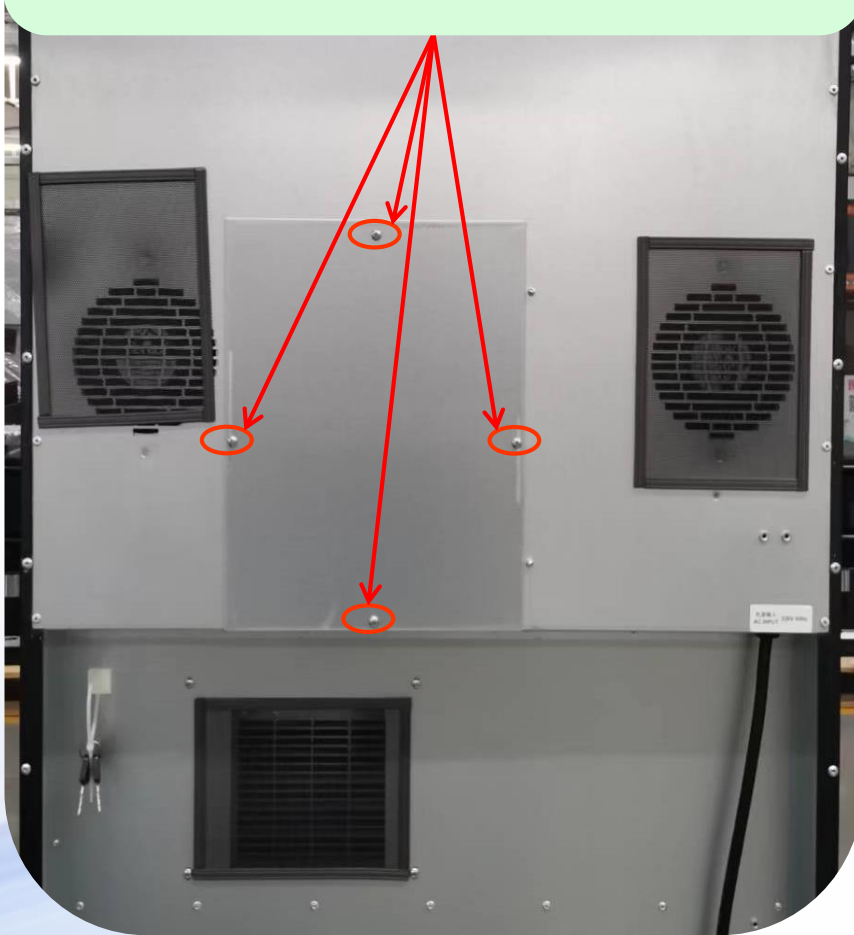
CAUTION: PTC heater,
high surface temperature,
beware of burns.



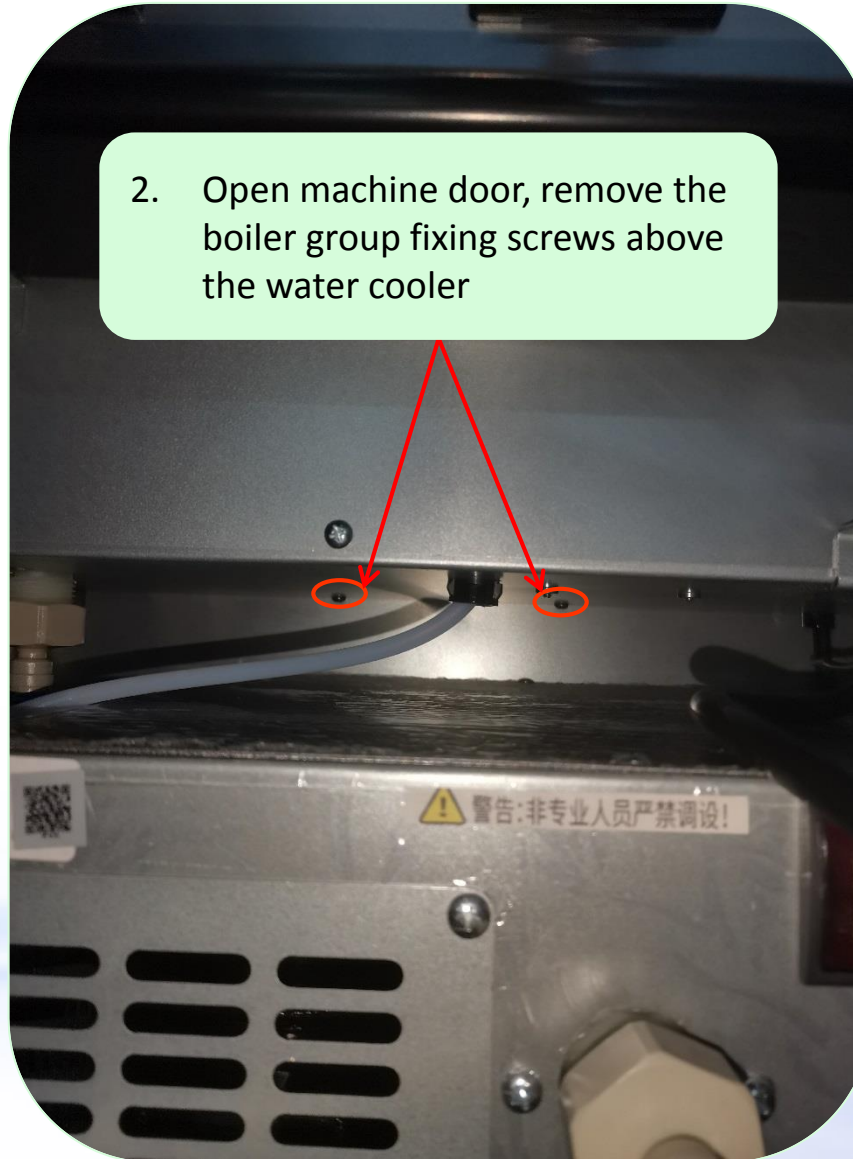
1. Access to machine management system, open machine door. Find 2P/3W valve behind the brewer, cut the tie, unplug the silicone tube and two white pipes, remove the nut. Unplug the valve power cord, remove the 2P/3W valve, use a wrench to remove the connector to replace it

Internal thread D6 G1/8 connector replacement manual

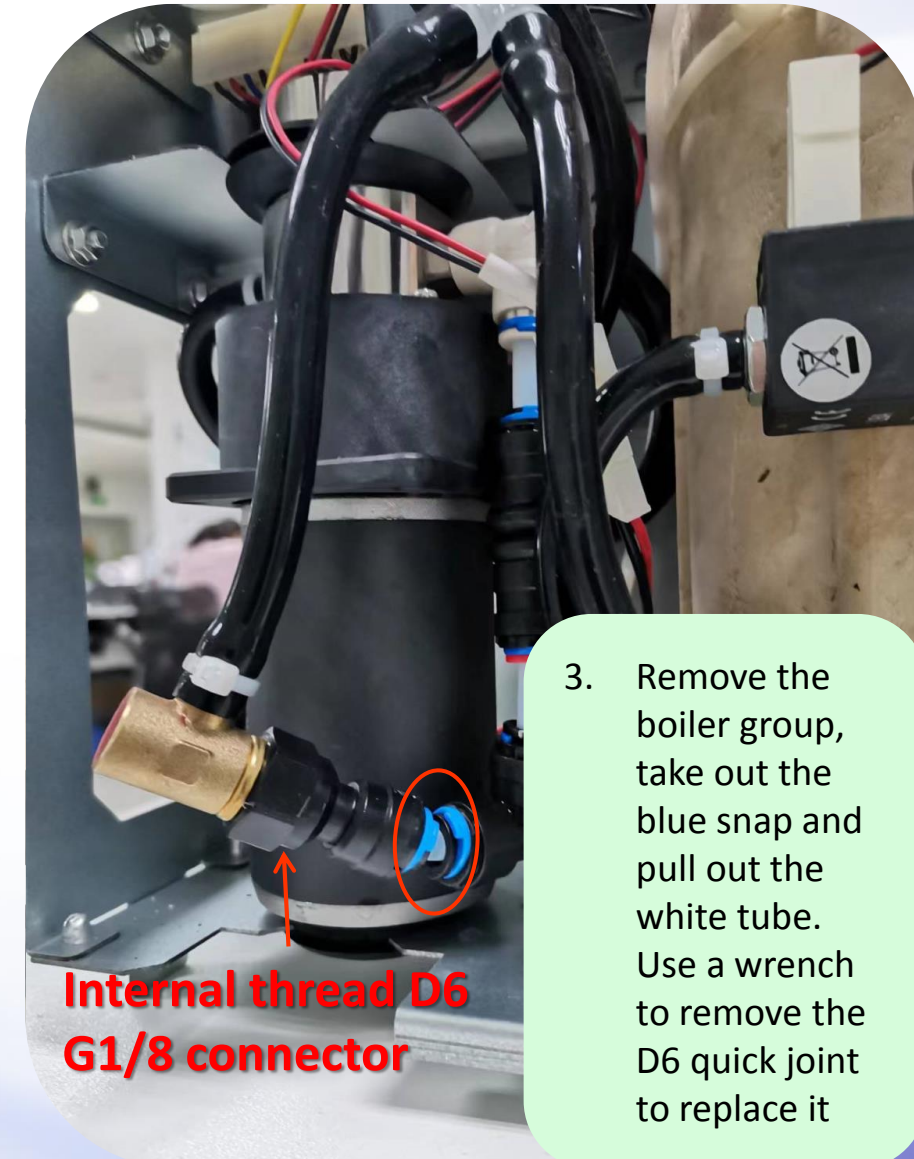
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler

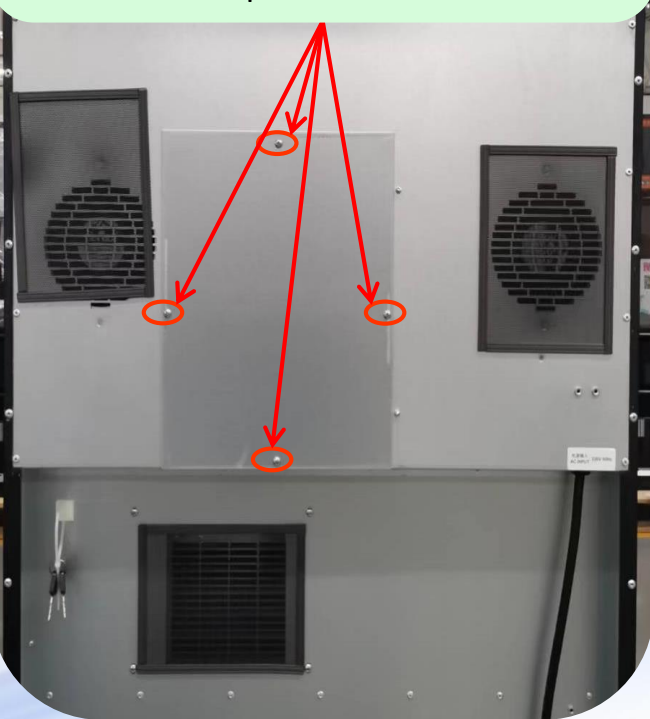


3. Remove the boiler group, take out the blue snap and pull out the white tube. Use a wrench to remove the D6 quick joint to replace it

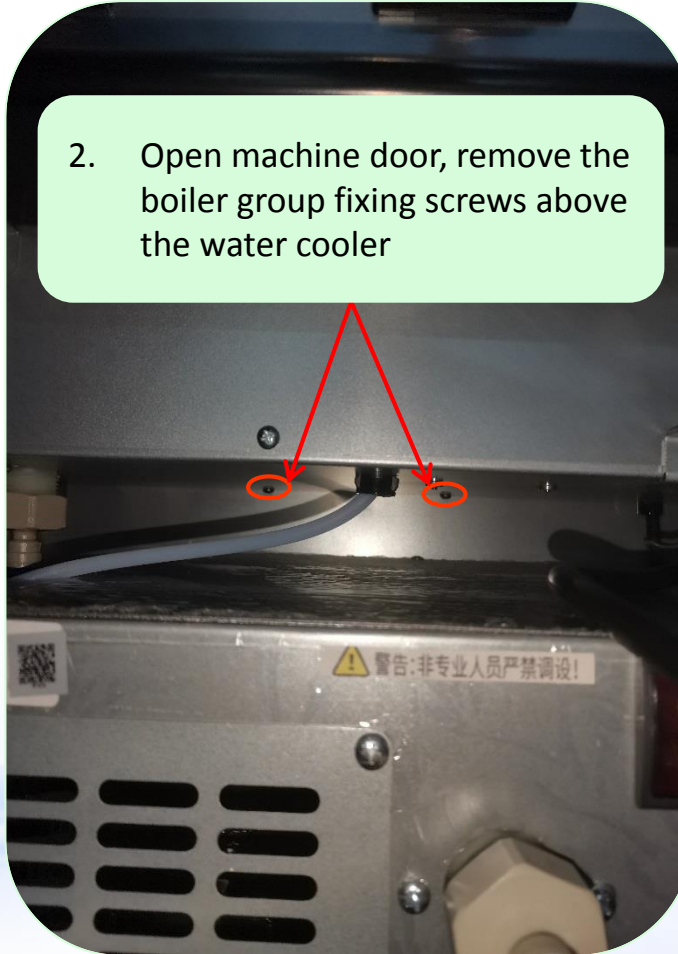


6mm T connector (cold water), 6mm T connector (white AVS) replacement manual

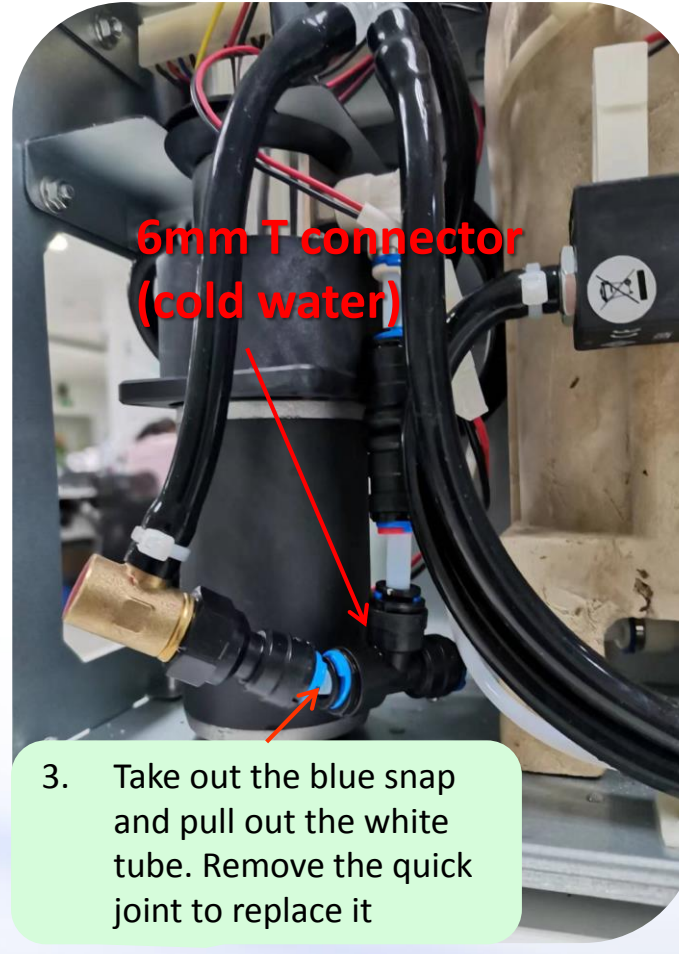
1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler

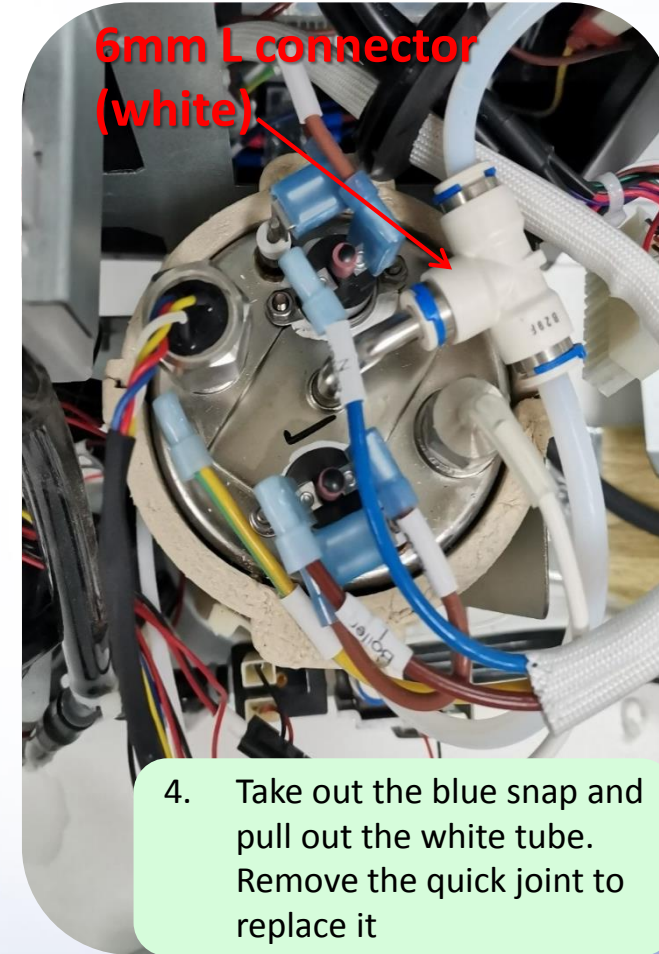


**6mm T connector
(cold water)**



3. Take out the blue snap and pull out the white tube. Remove the quick joint to replace it

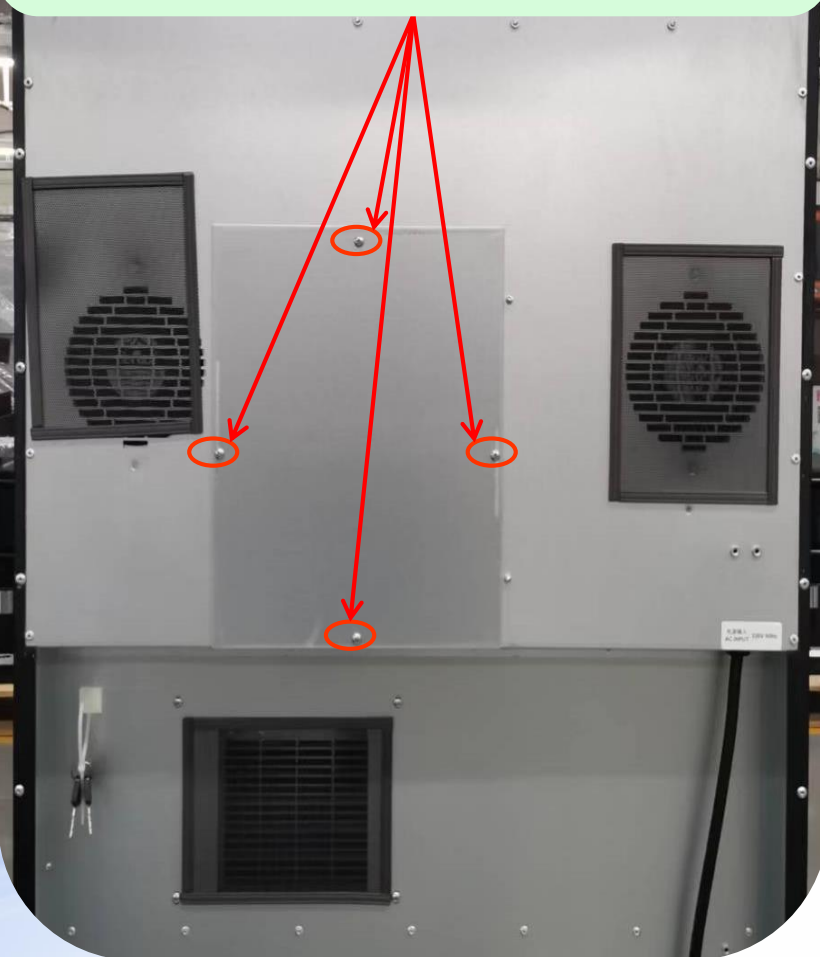
**6mm L connector
(white)**



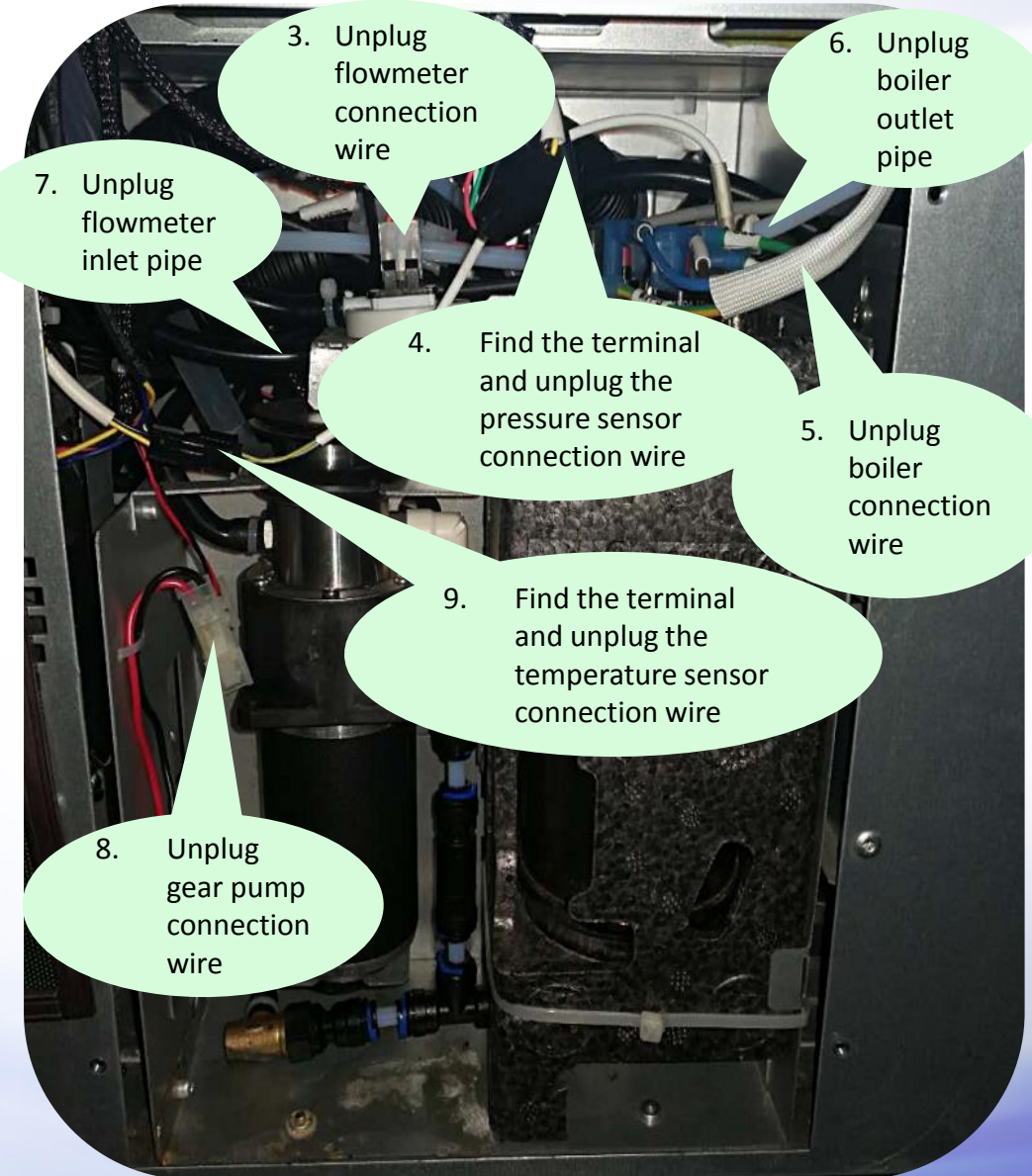
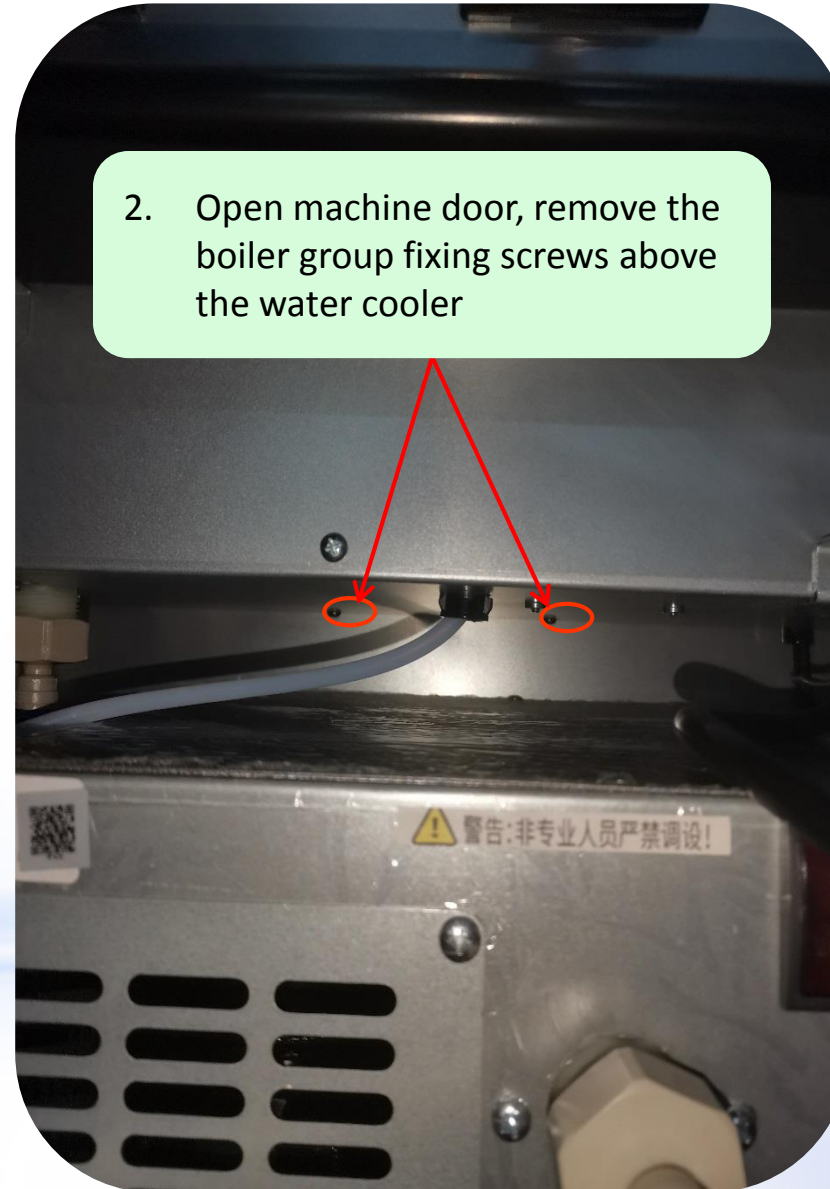
4. Take out the blue snap and pull out the white tube. Remove the quick joint to replace it

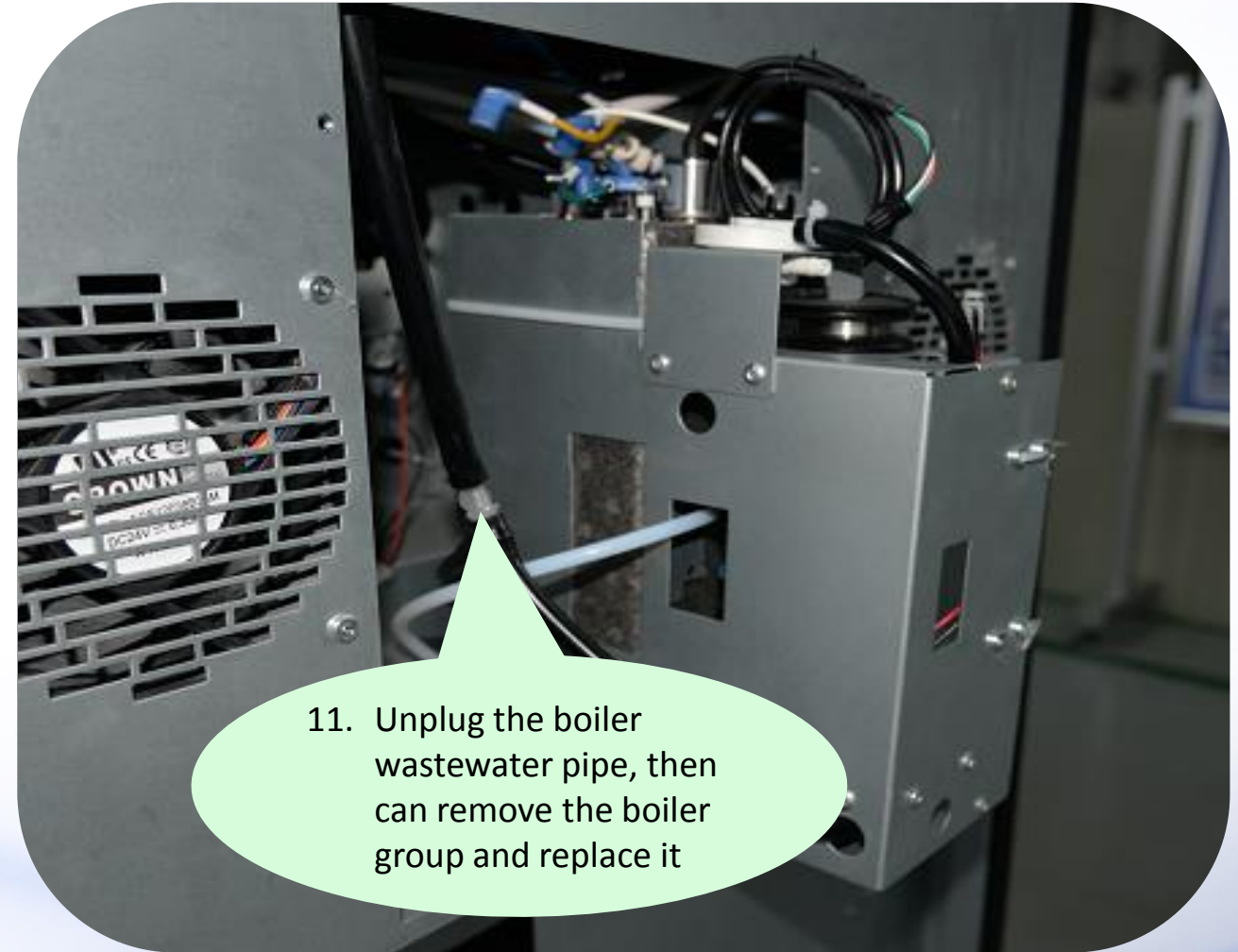
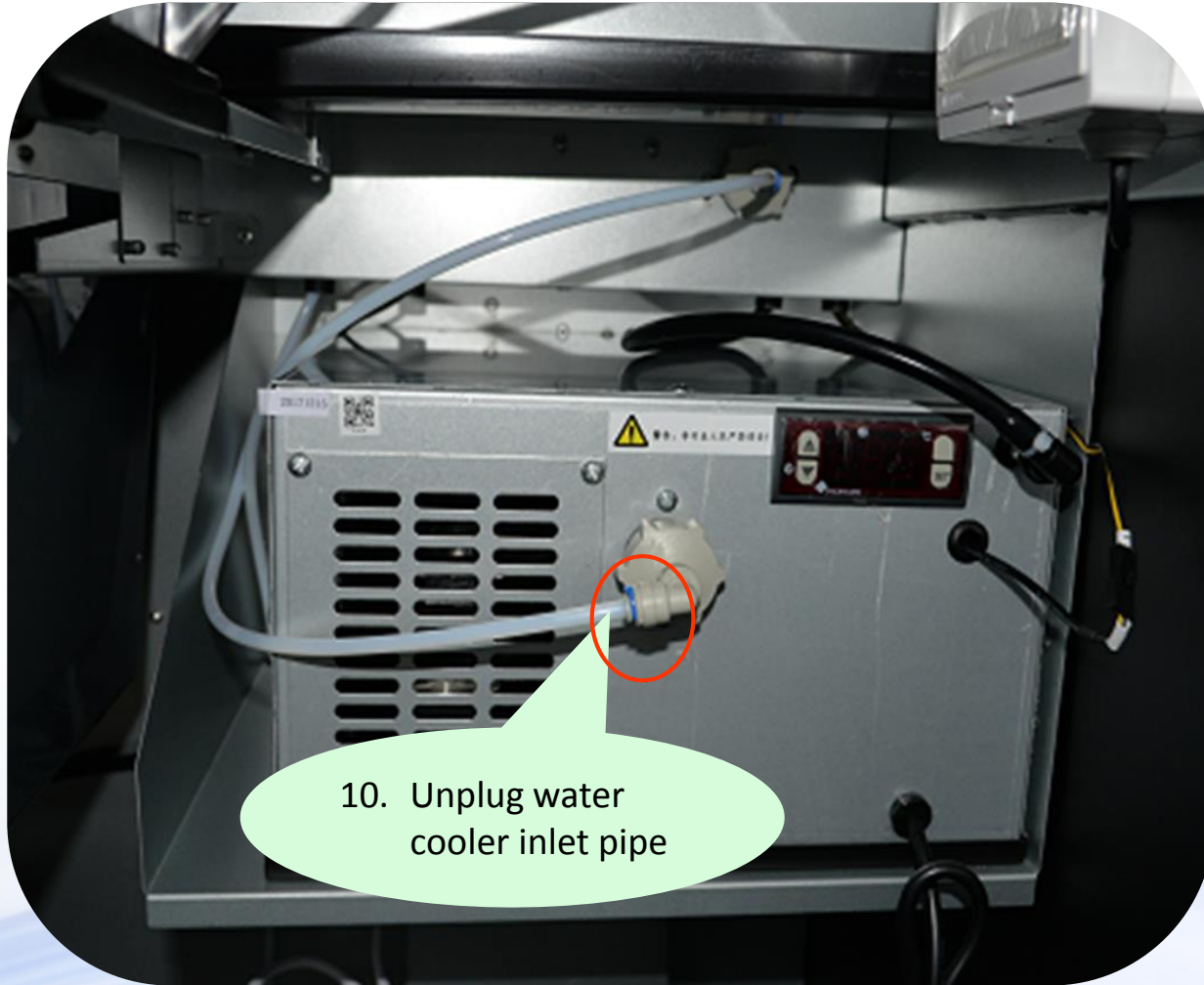
6mm L connector (white) replacement manual - 1

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler





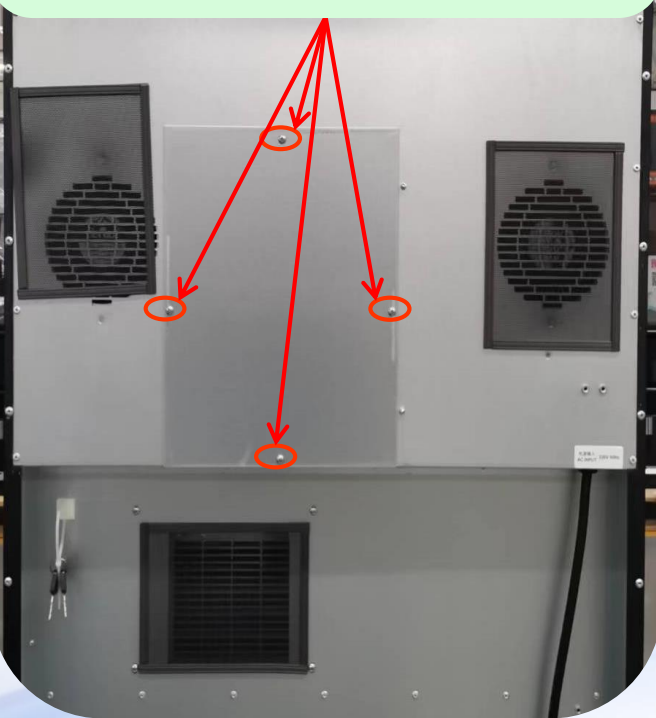
6mm L connector (white) replacement manual - 3



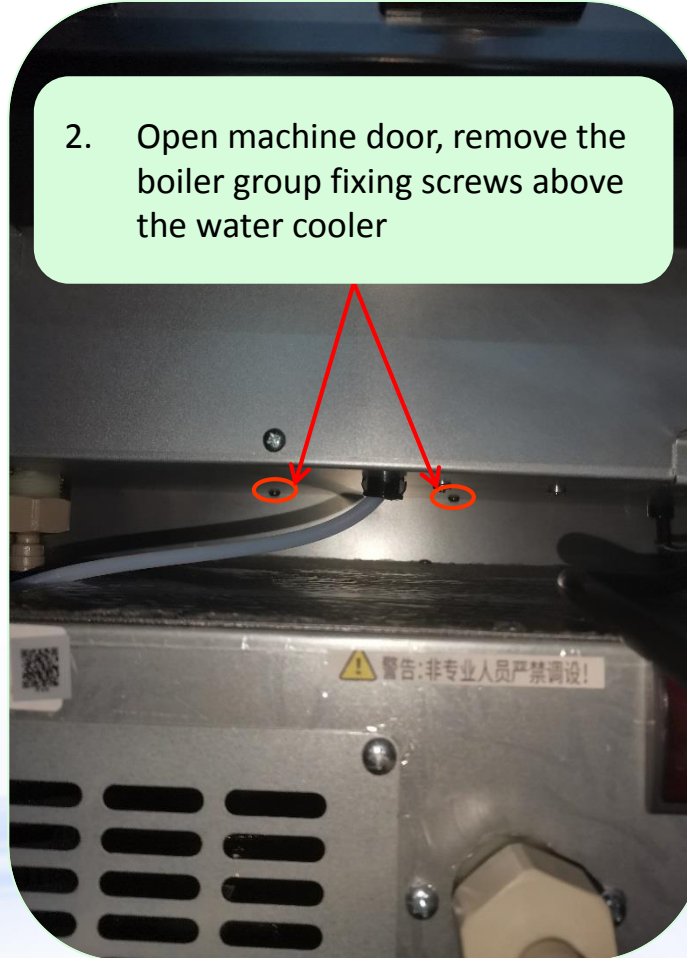
12. Cut the tie, remove the DPS boiler insulation left cover, take out the blue snap and remove the connector, then can replace it

6mm L G1/8 connector (thread-white) replacement manual

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



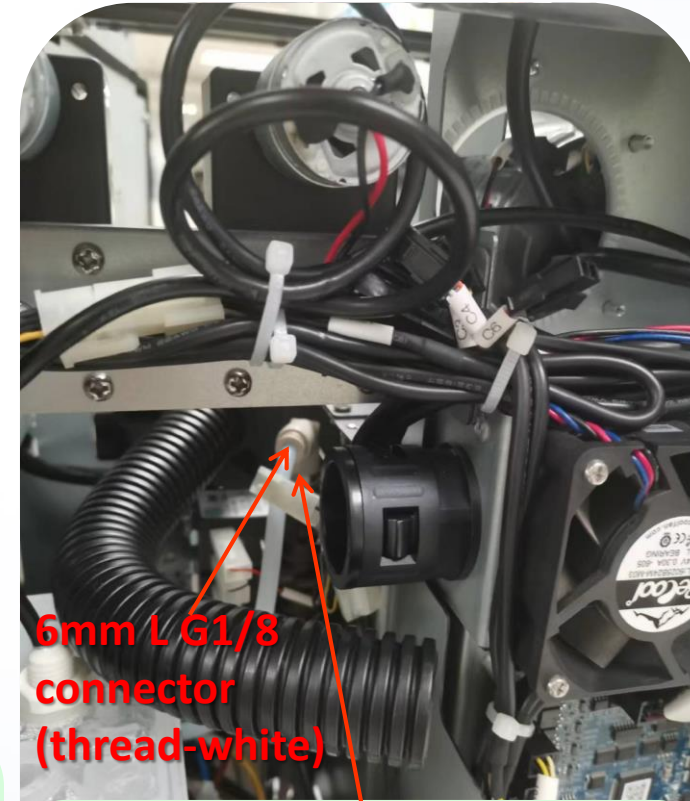
2. Open machine door, remove the boiler group fixing screws above the water cooler



3. Take out the boiler group, unplug the gear pump power cord. Cut the tie, unplug the silicone tube, then remove the blue snap and unplug the white pipe from the connector. Remove the gear pump to replace it

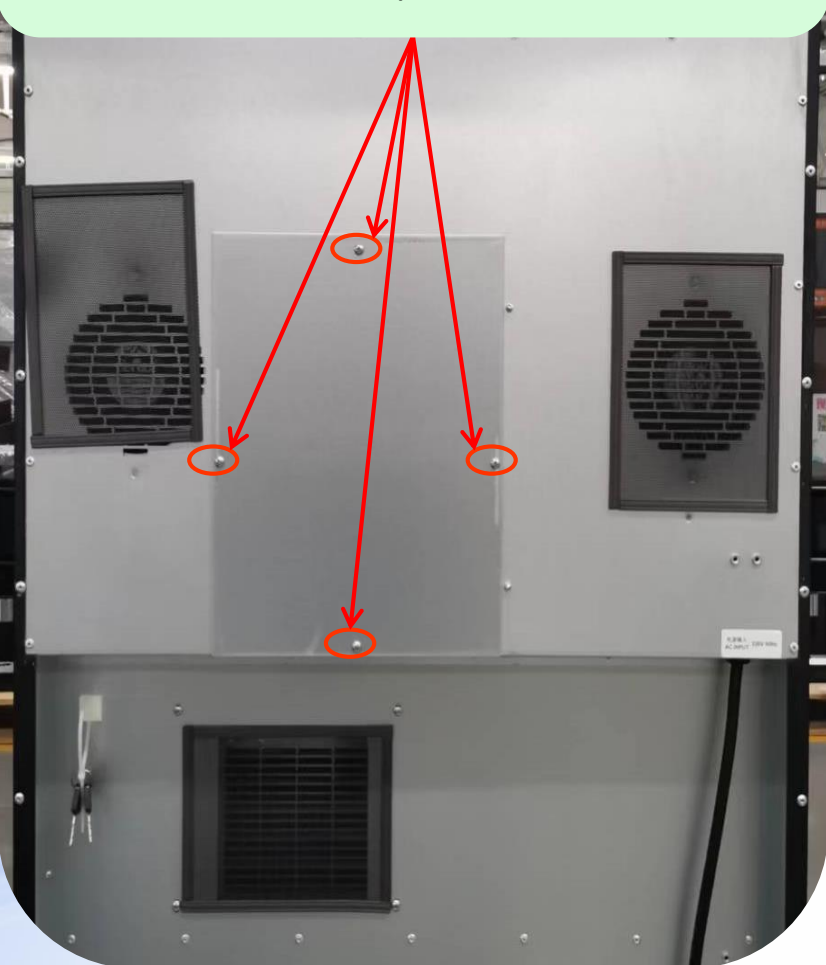


4. Take out the boiler group, remove the blue snap and the white pipe from the connector. Remove the gear pump and the connector to replace it

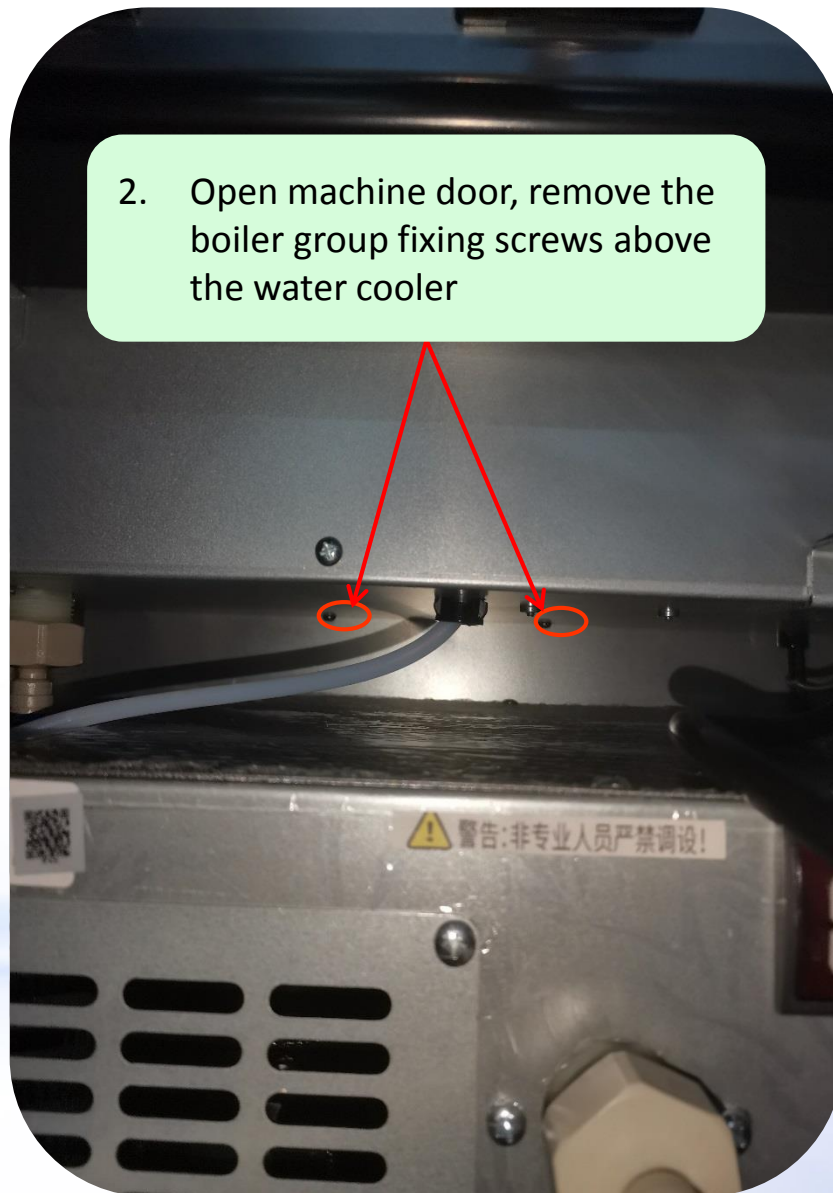


Silicone tube connector replacement manual

1. Access to machine management system, open machine door, turn off the power. Remove the four screws on the back and remove the cover plate



2. Open machine door, remove the boiler group fixing screws above the water cooler



silicone tube connector

3. Take out the boiler group, unplug the gear pump power cord. Cut the tie, unplug the silicone tube, then remove the blue snap and unplug the white pipe from the connector. Remove the gear pump, and use a wrench to unscrew the connector

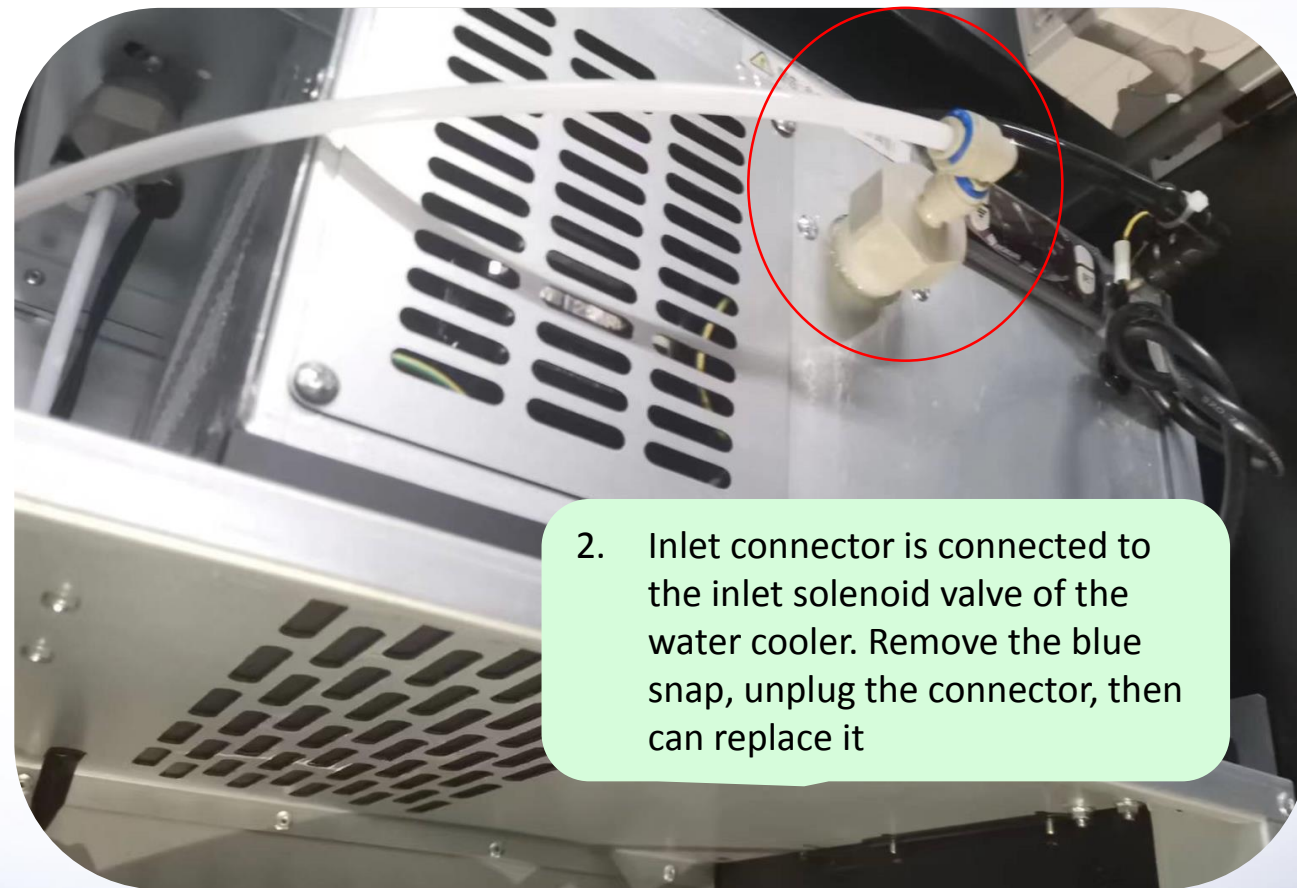


Inlet valve connector replacement manual

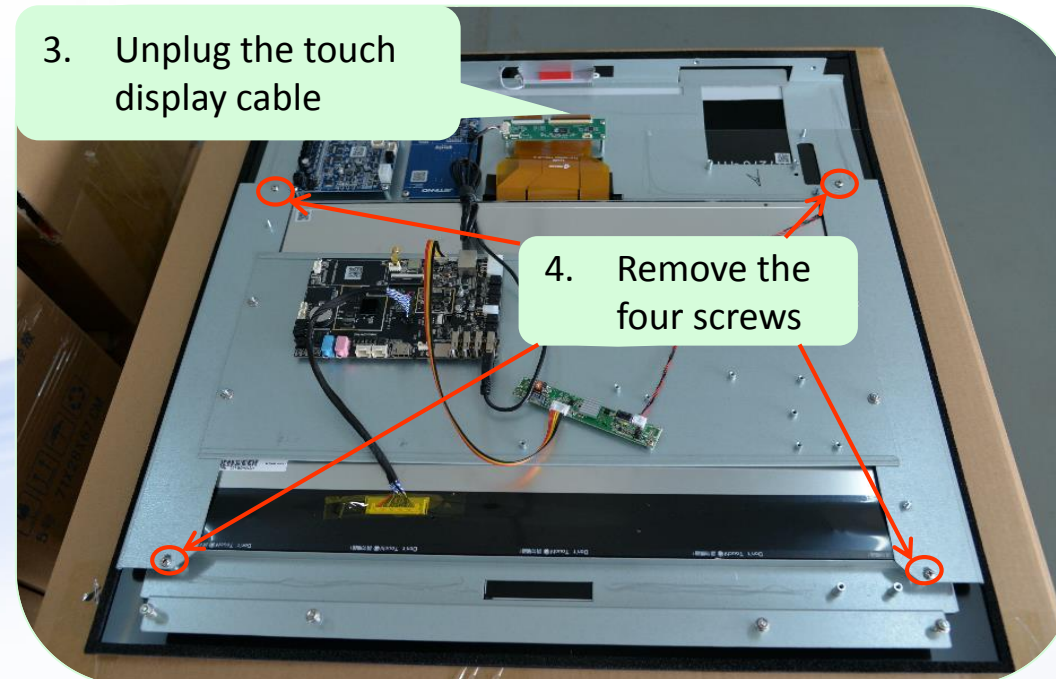
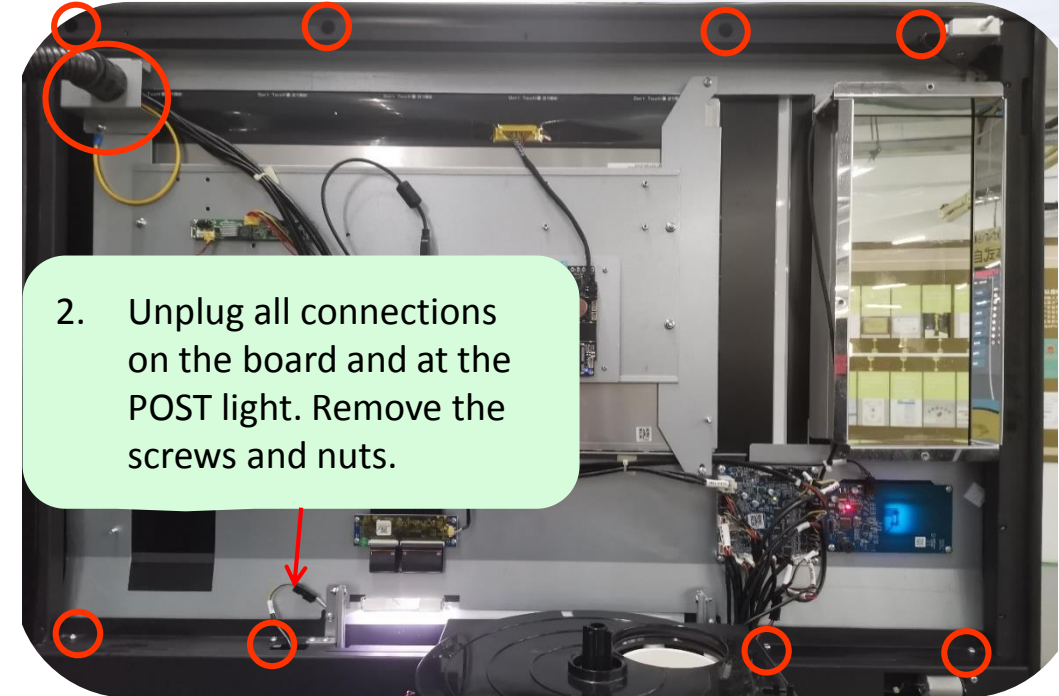
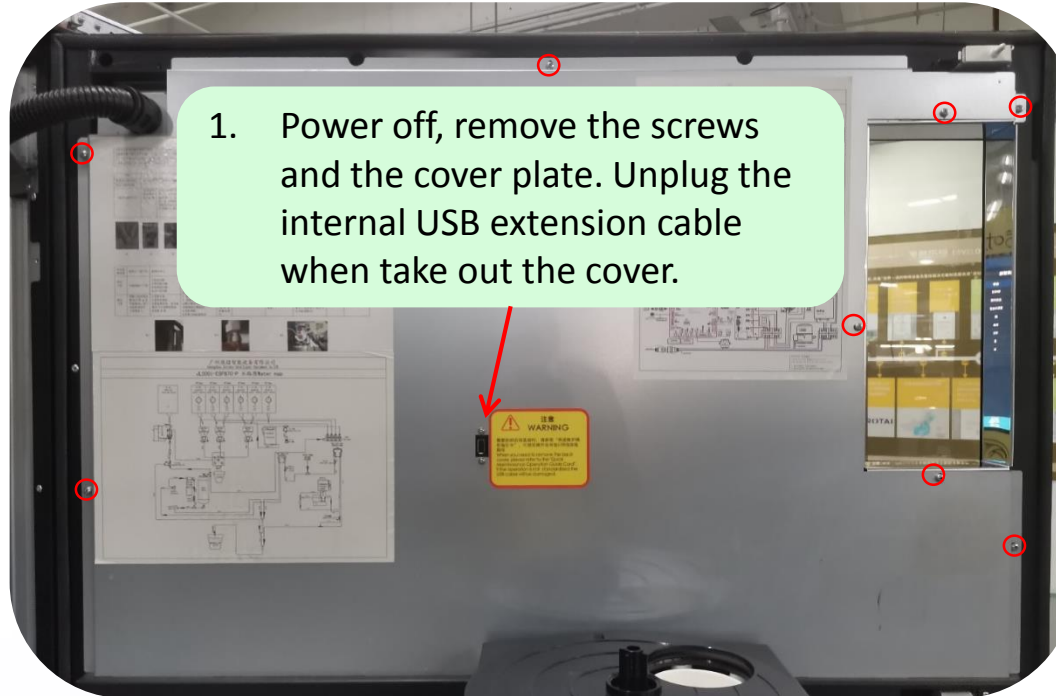
1. Inlet connector is connected to the inlet solenoid valve and connects to the water pump inlet interface



2. Inlet connector is connected to the inlet solenoid valve of the water cooler. Remove the blue snap, unplug the connector, then can replace it



27" Touch/Display screen replacement manual



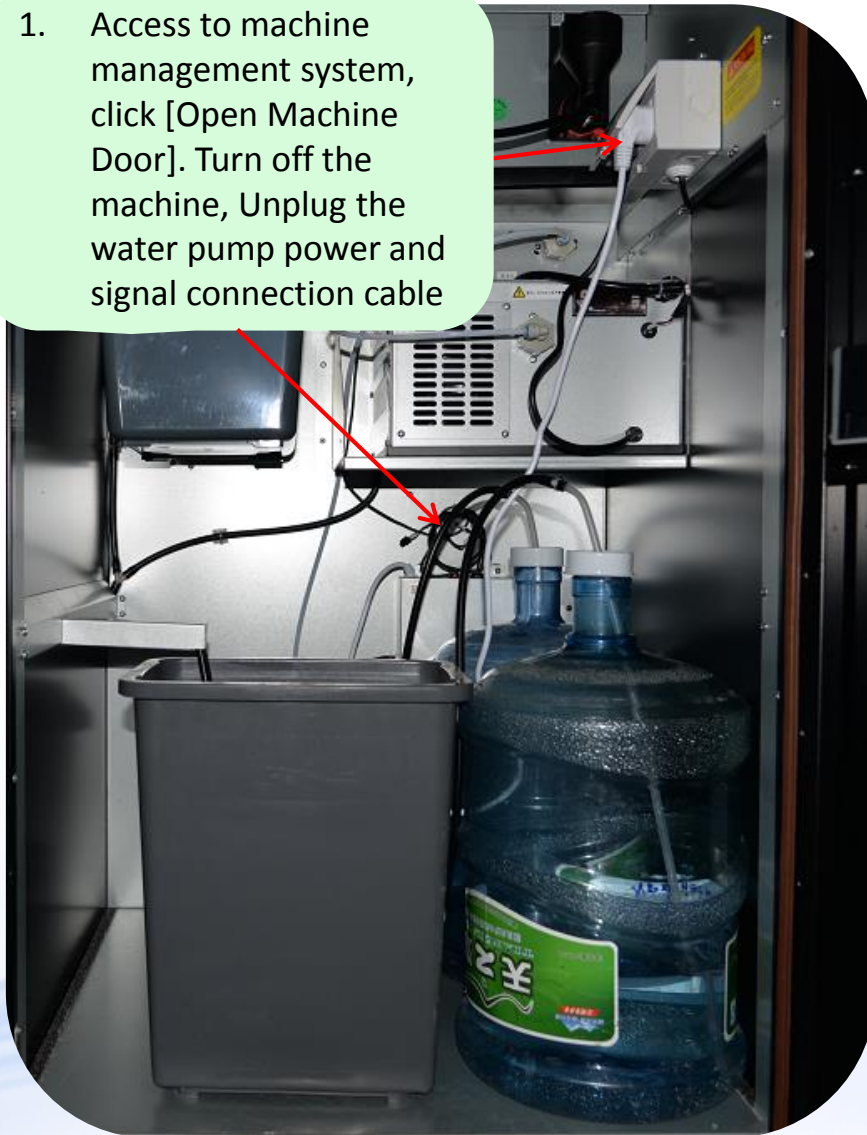
ATTENTION:

Take pictures before disassembly to record the wiring. When removing the last screw, be sure to hold the screen to avoid dropping

TIPS: Use M7 wrench to loosen the three nuts, rotate few more turns. But does not need to be removed, because the screen is installed with a nut from the front hanging buckle. Use a Phillips screwdriver to remove few screws. Lift the screen upward in front of the machine first and remove the screen group flat outward.

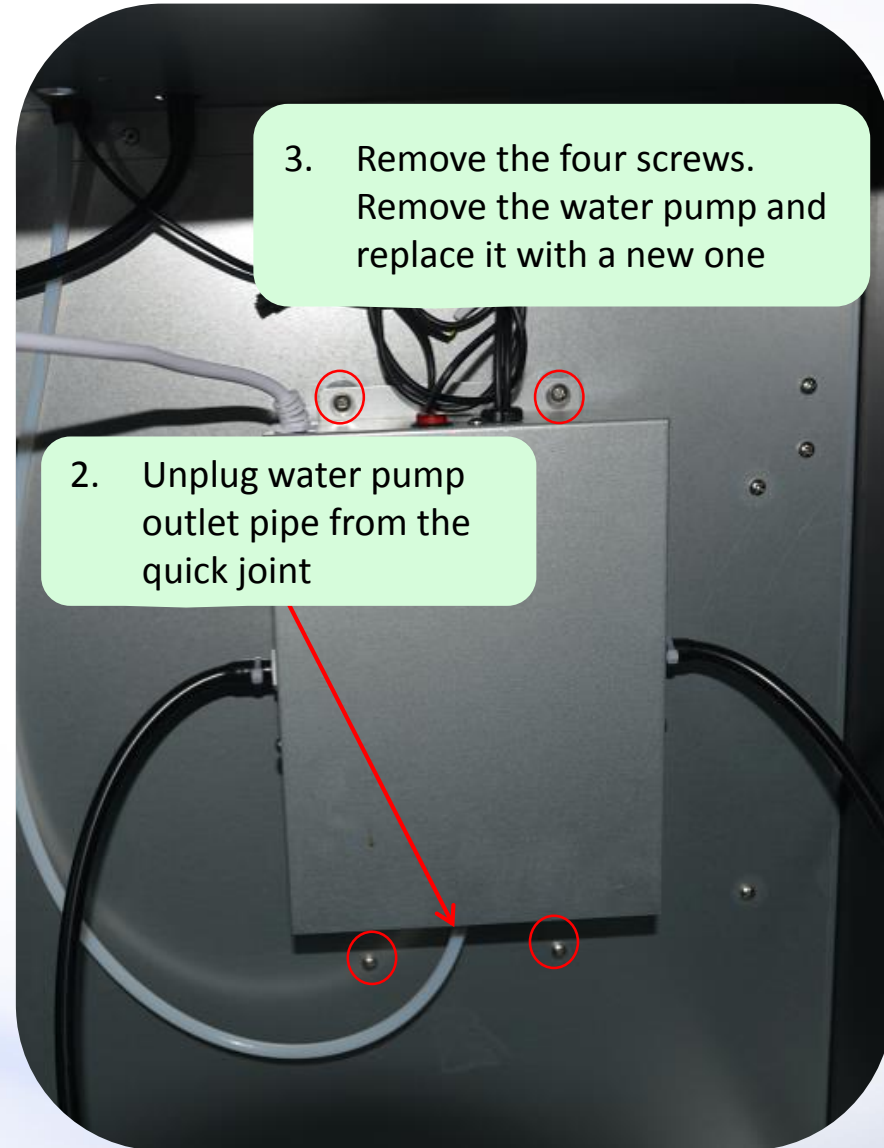
Water pump replacement manual

1. Access to machine management system, click [Open Machine Door]. Turn off the machine, Unplug the water pump power and signal connection cable



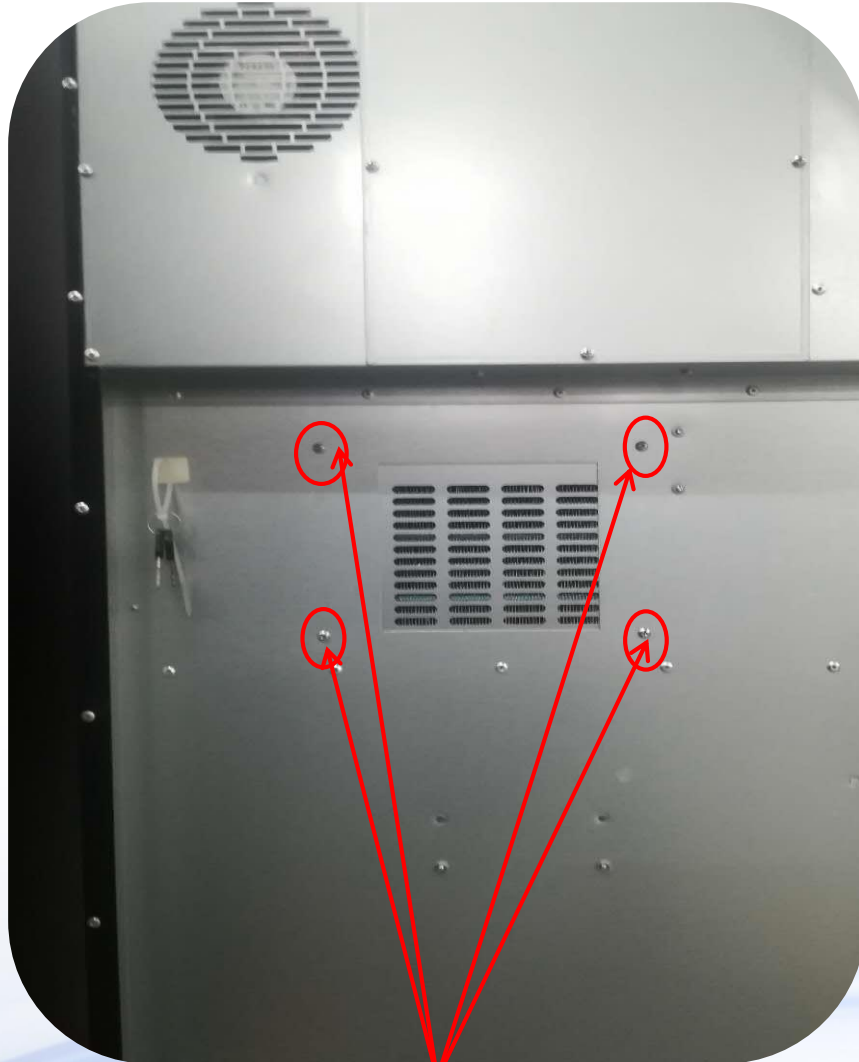
3. Remove the four screws. Remove the water pump and replace it with a new one

2. Unplug water pump outlet pipe from the quick joint



Remove the old water pump and use the original three nuts to fix the new one. Connect the water pipe and insert the connector into the interface. Turn on the machine, access to management system, click [Reset Machine], [Machine Cleaning] to check if the pump is pumping water

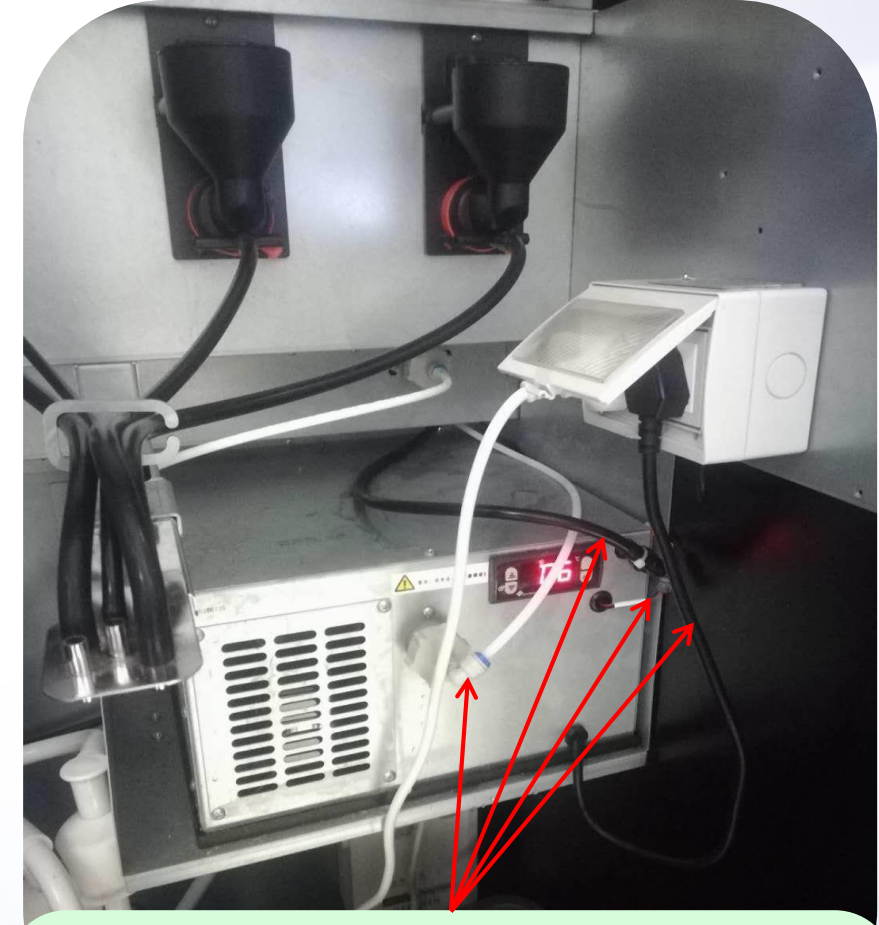
Water cooler replacement manual



1. Remove the 4 screws behind the machine

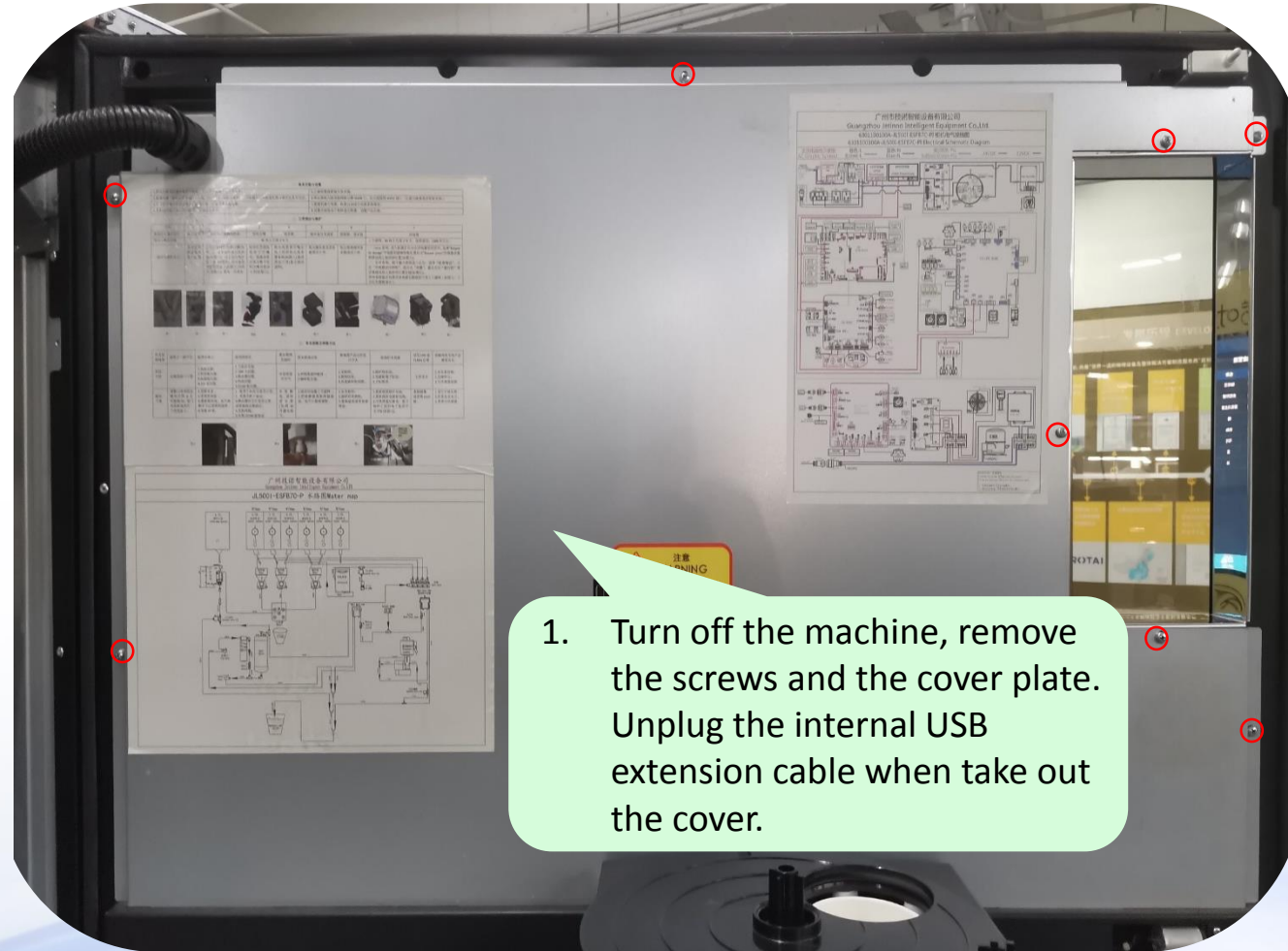


2. Remove the 2 nuts and pull out the fixed sheet metal upward

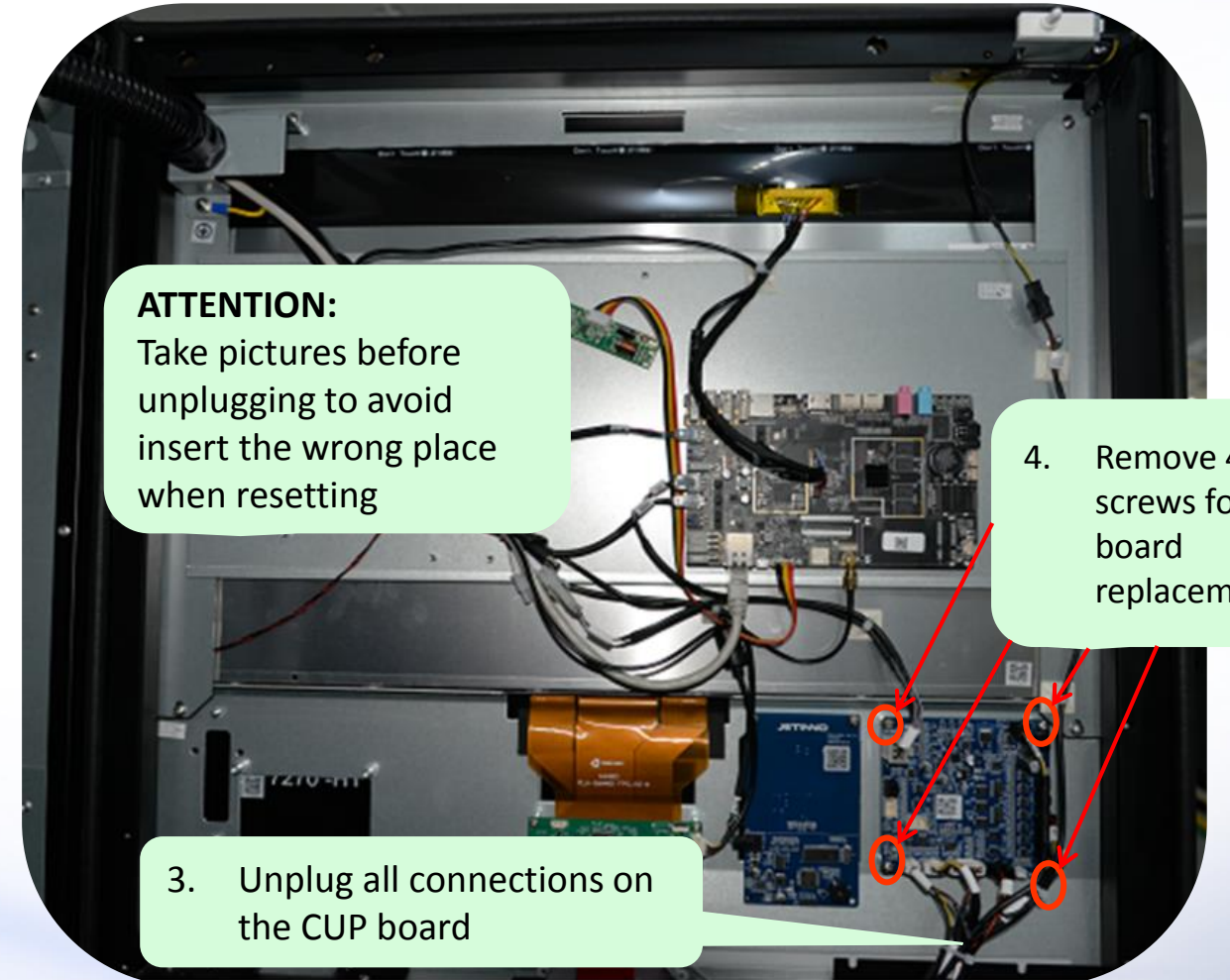


3. Empty the air break, unplug the water cooler power cord and the cold water inlet valve connector. Rotate the connector counterclockwise until it is removed. Unplug the water cooler outlet connector. Lift off the water cooler and replace it with a new one; reset the machine after the replacement is finished

CUP BOARD_V1.3.3 (standard) replacement manual

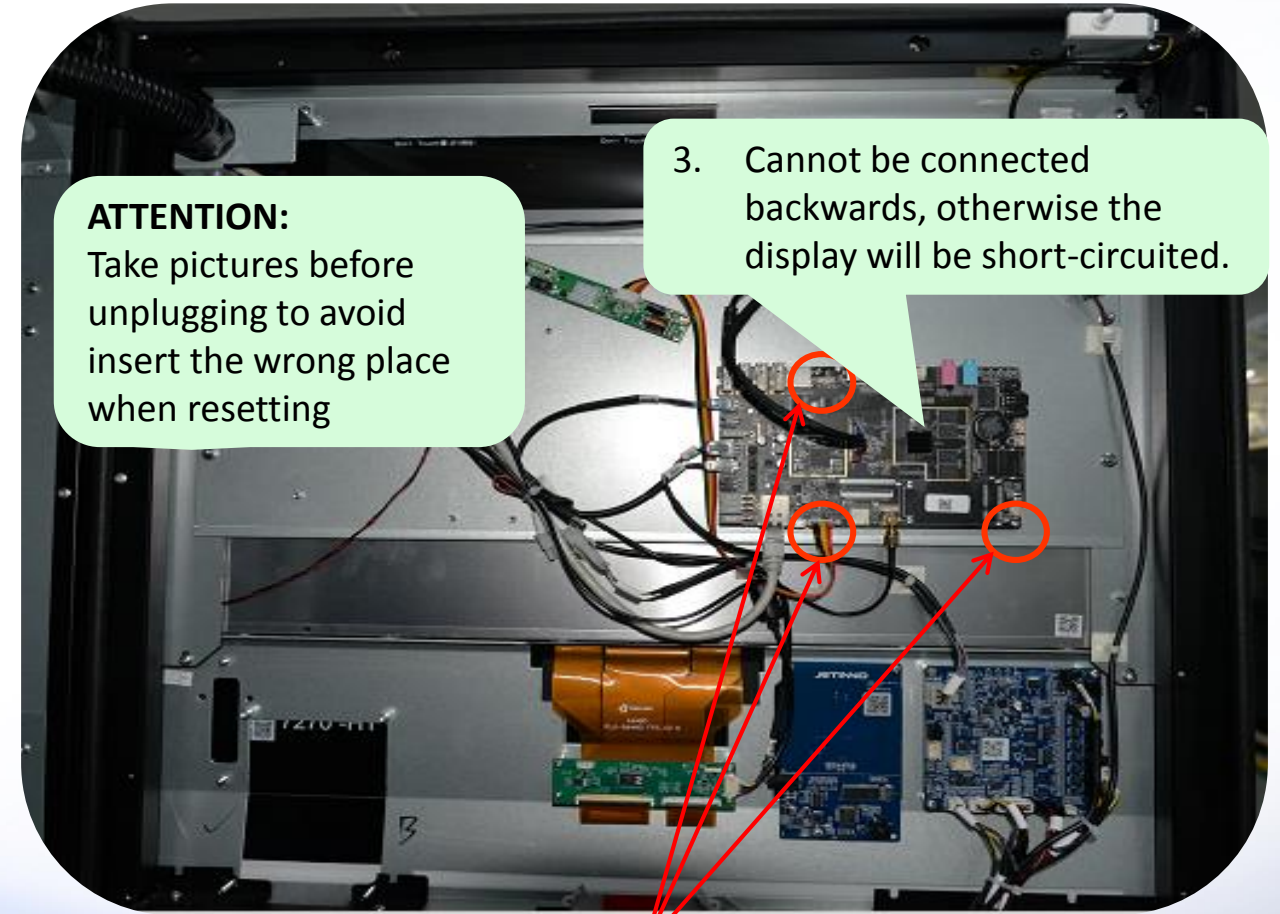
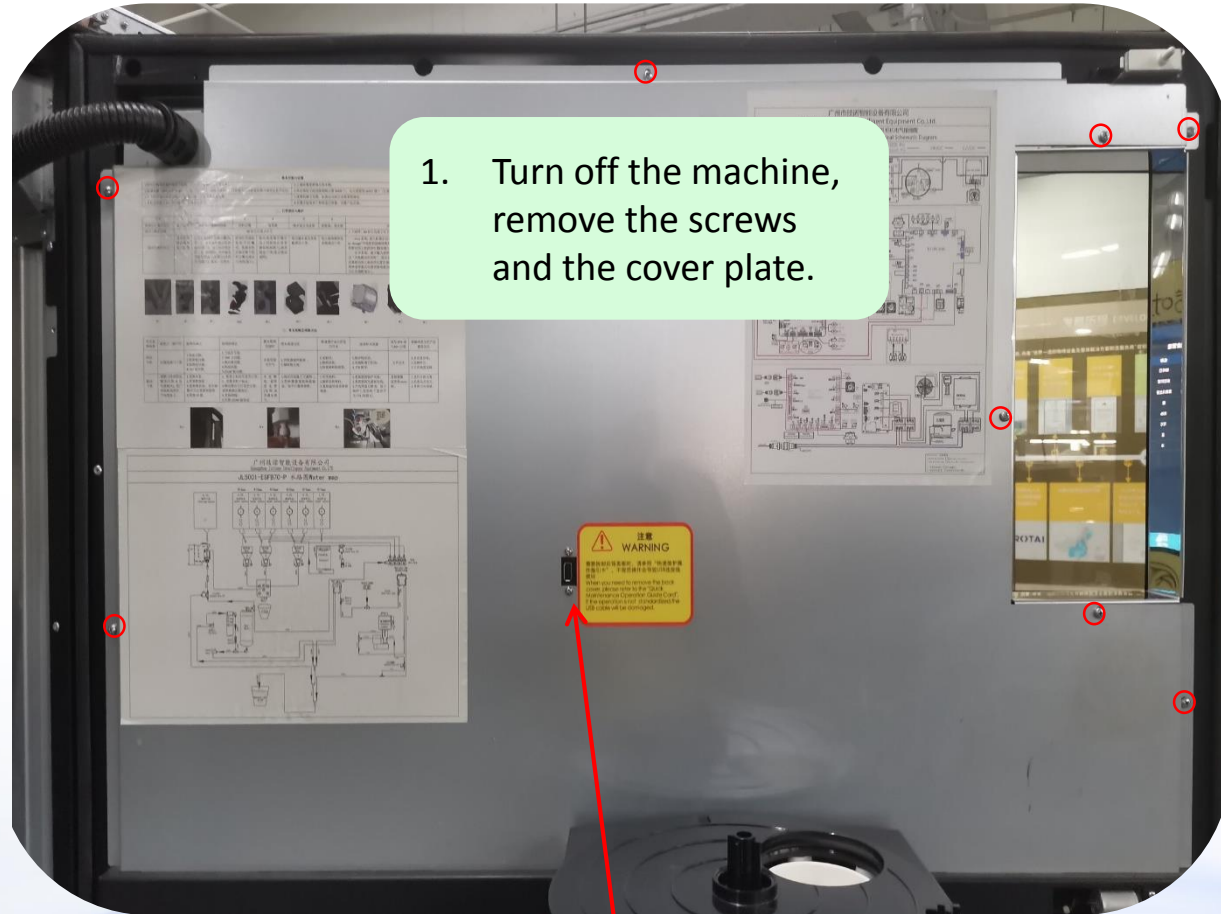


Remove the back cover of the machine door

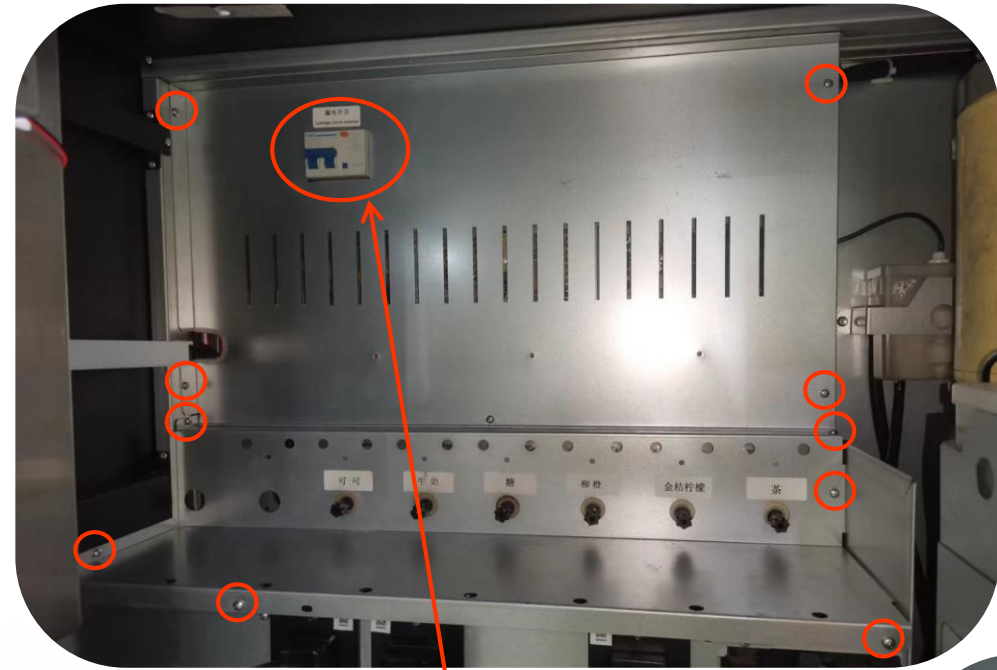


Replace CUP board

A83T_STUM_V3.4 (circuit board) replacement manual

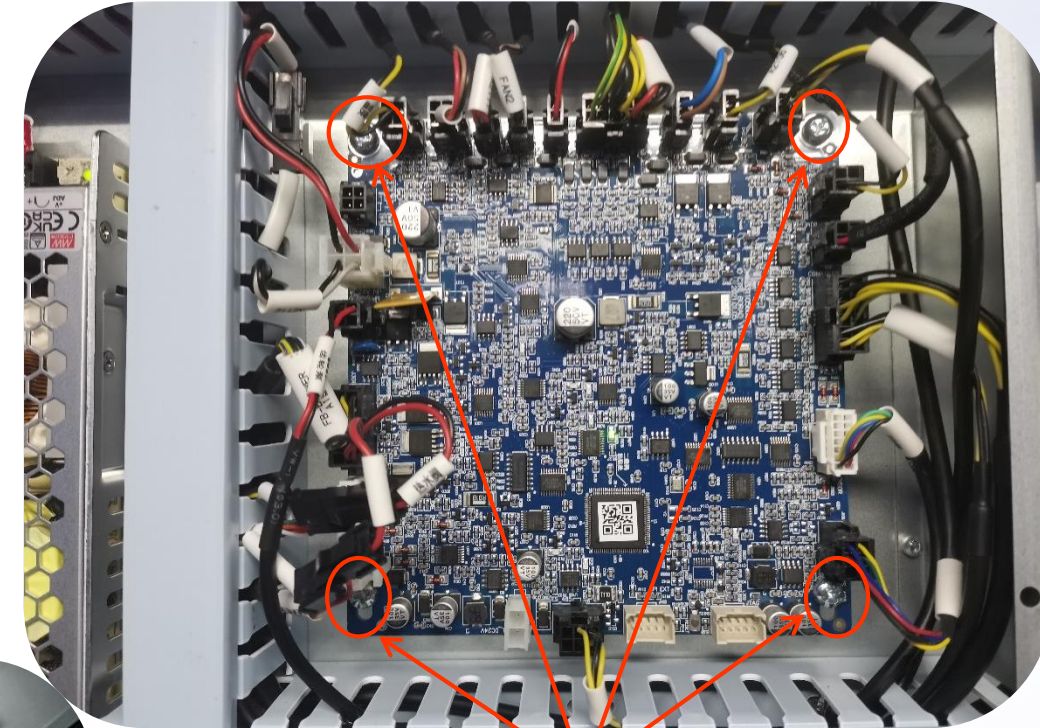
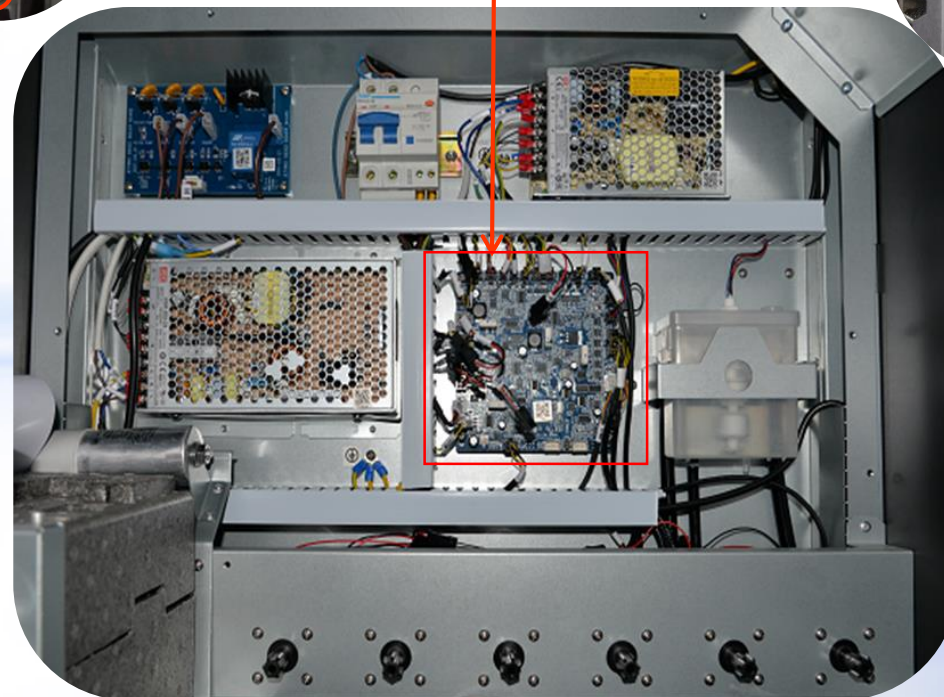


I/O CTRL BOARD V1.0.7 (circuit board) replacement manual



1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch. Remove the screws and take off the cover plate.

2. Take pictures before unplugging to avoid insert the wrong place when resetting. Unplug all connections on the I/O board.



3. Remove 4 screws on the I/O board for board replacement

RFID_BOARD_V1.3.1 (circuit board) replacement manual

1. Power off, remove the screws and the cover plate. Unplug the internal USB extension cable when take out the cover.

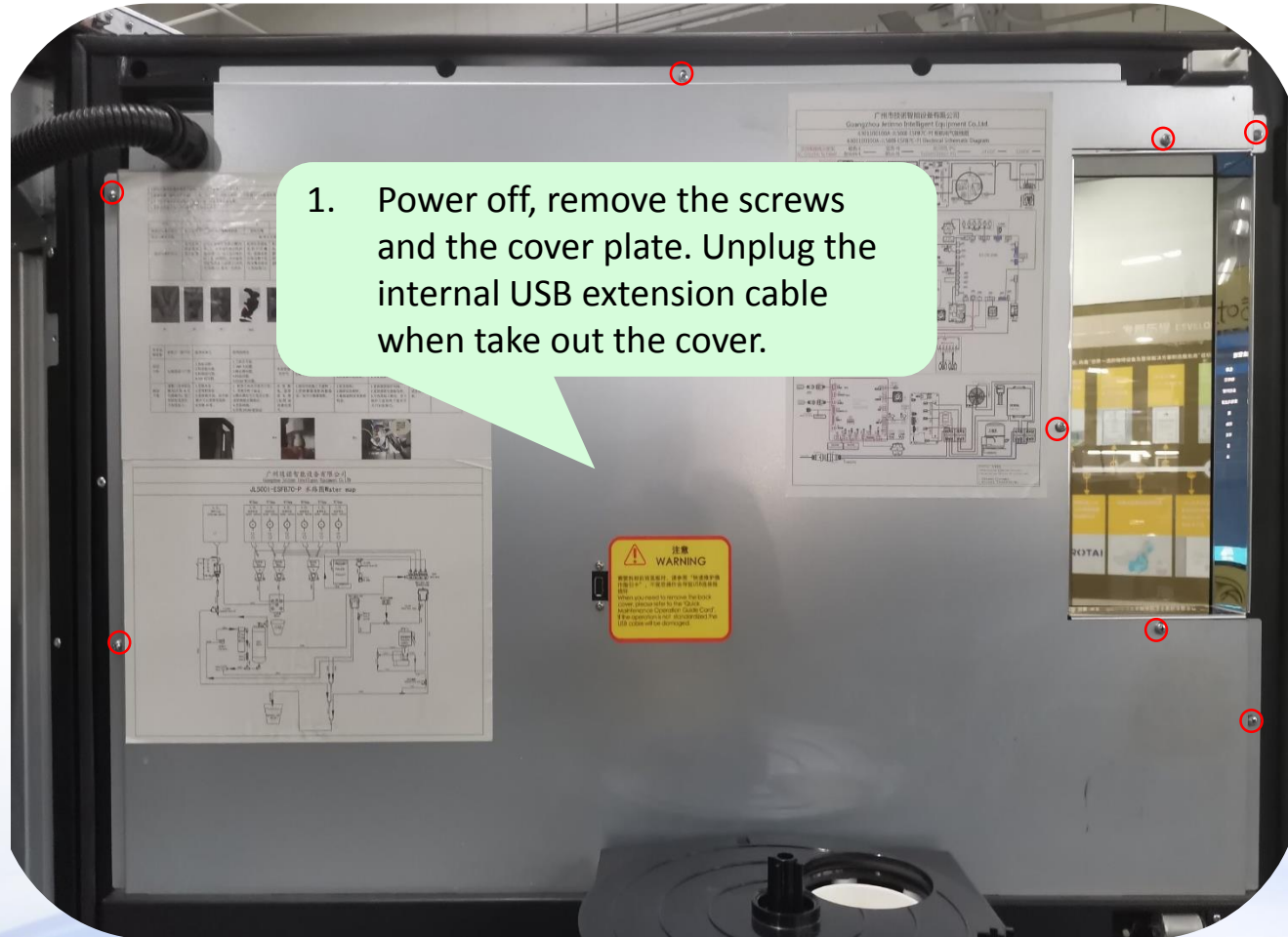
ATTENTION:

Take pictures before unplugging to avoid insert the wrong place when resetting

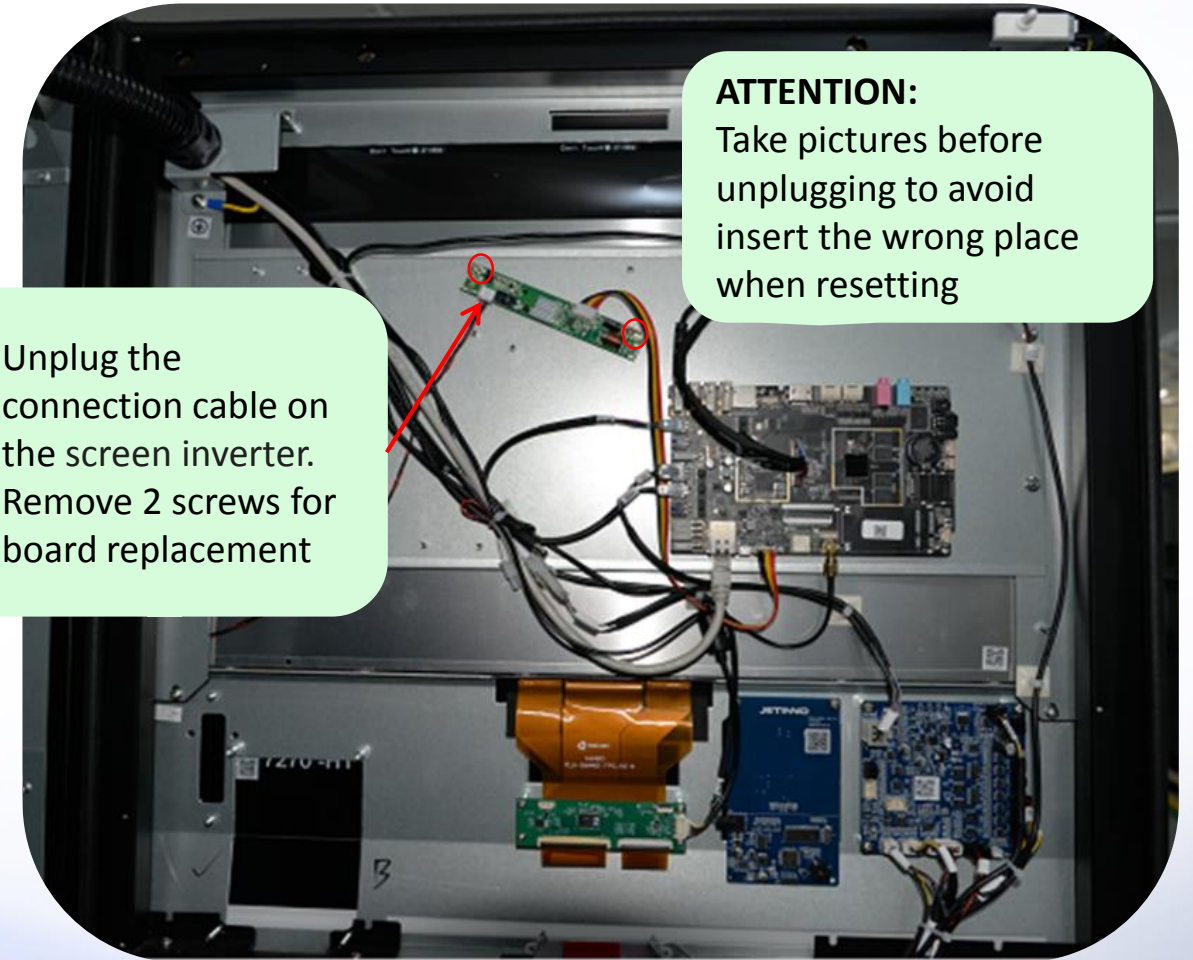
3. Remove 4 screws for board replacement

2. Unplug the reader cable on the RFID board

Screen inverter replacement manual

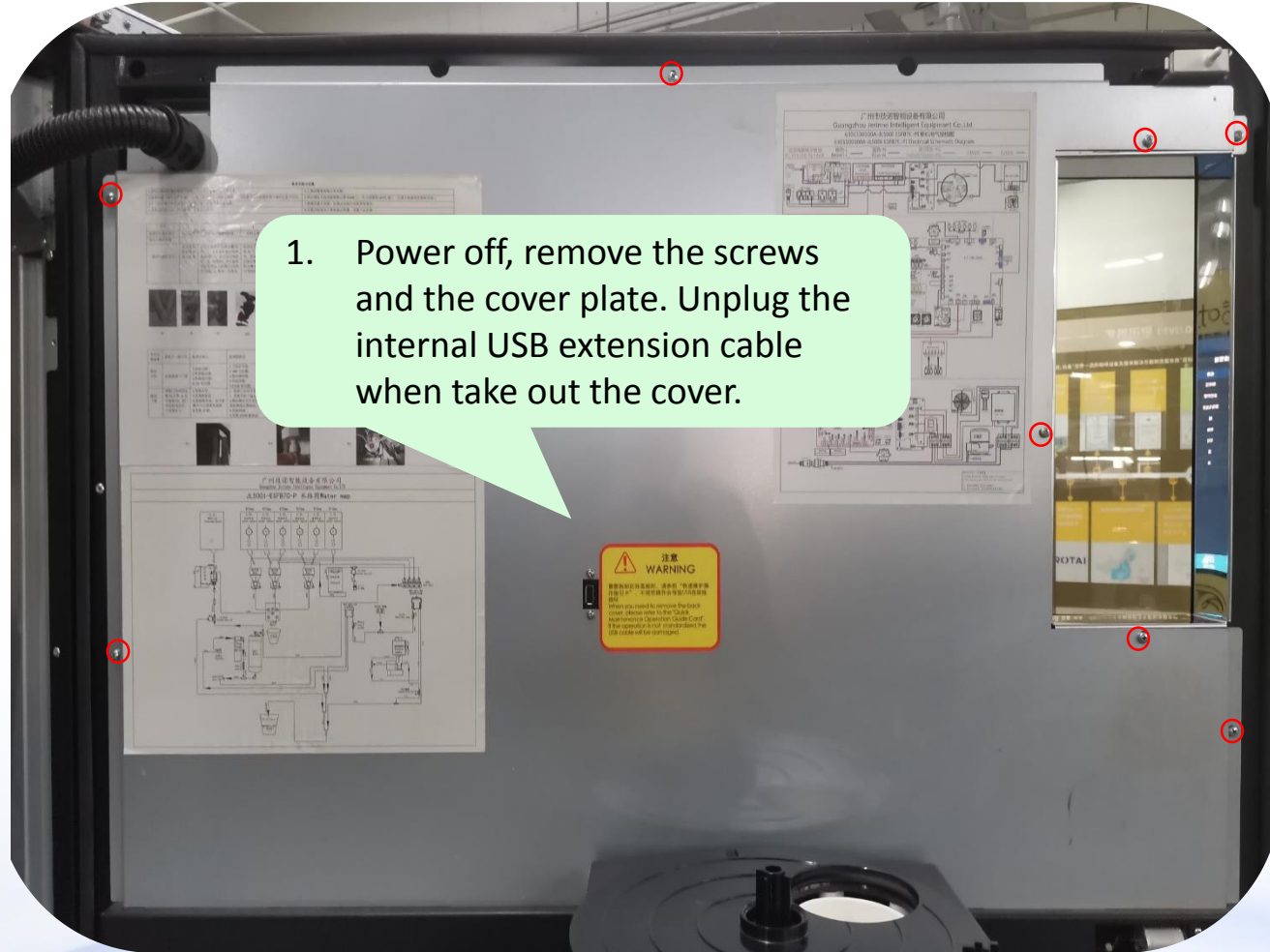


Remove the back cover of the machine door

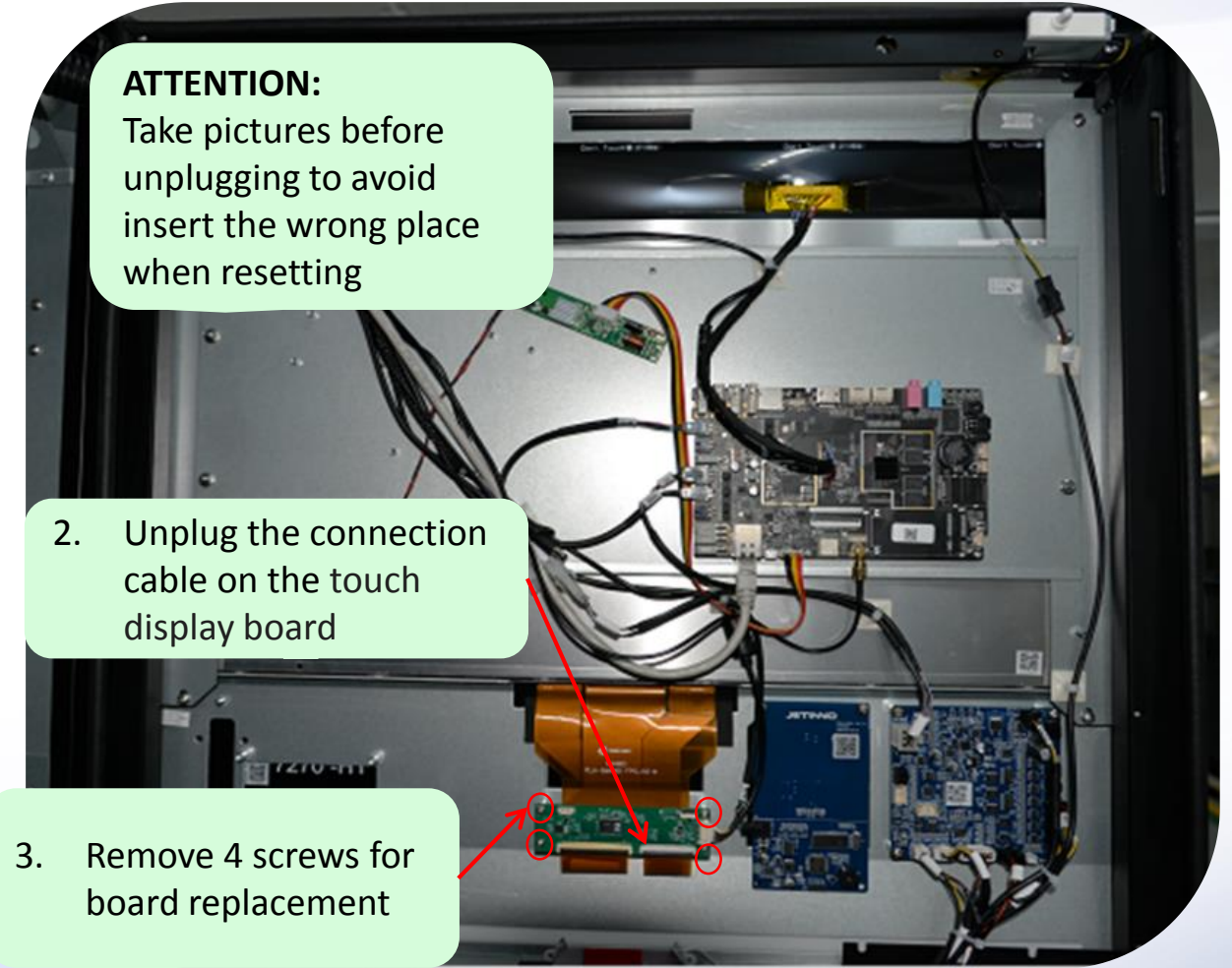


Replace screen inverter

Touch_Key_V1.1 (circuit board) replacement manual

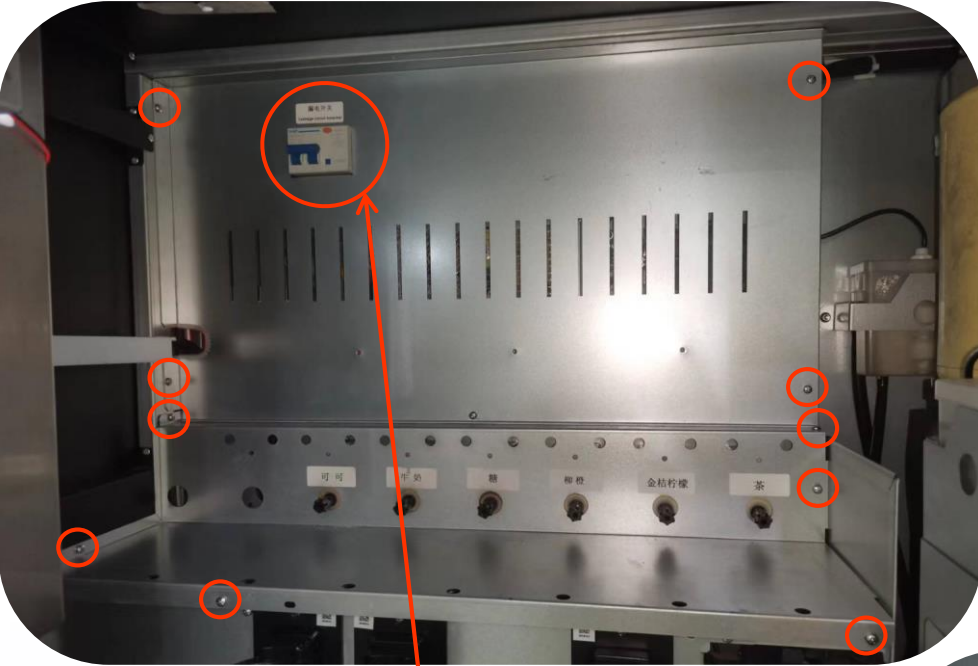


Remove the back cover of the machine door



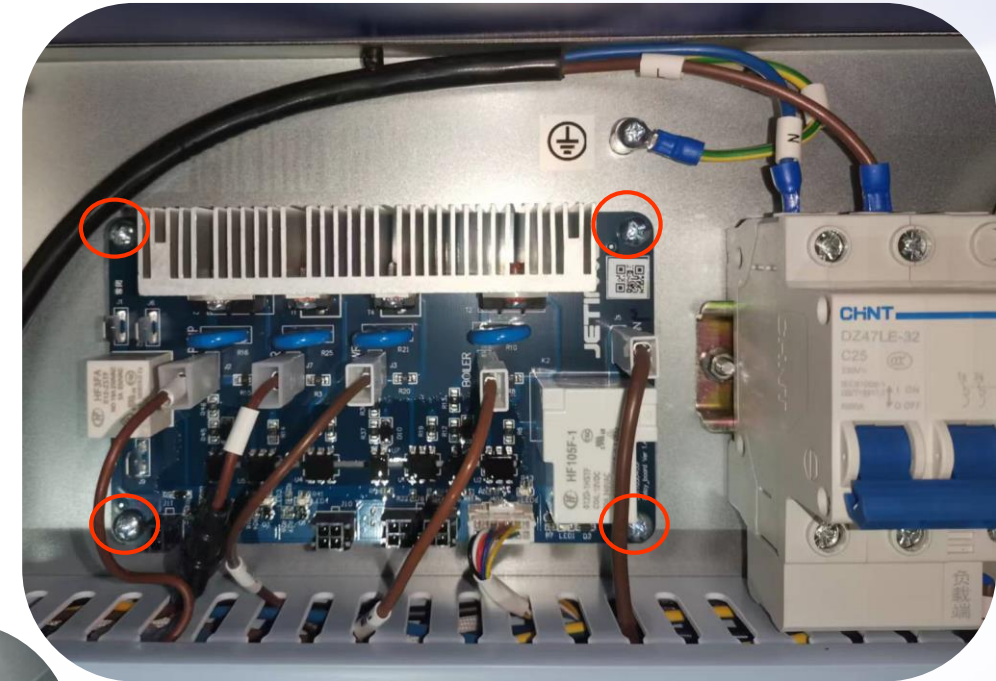
Replace touch display board

RELAY_BOARD-V1.4.2 (circuit board) replacement manual

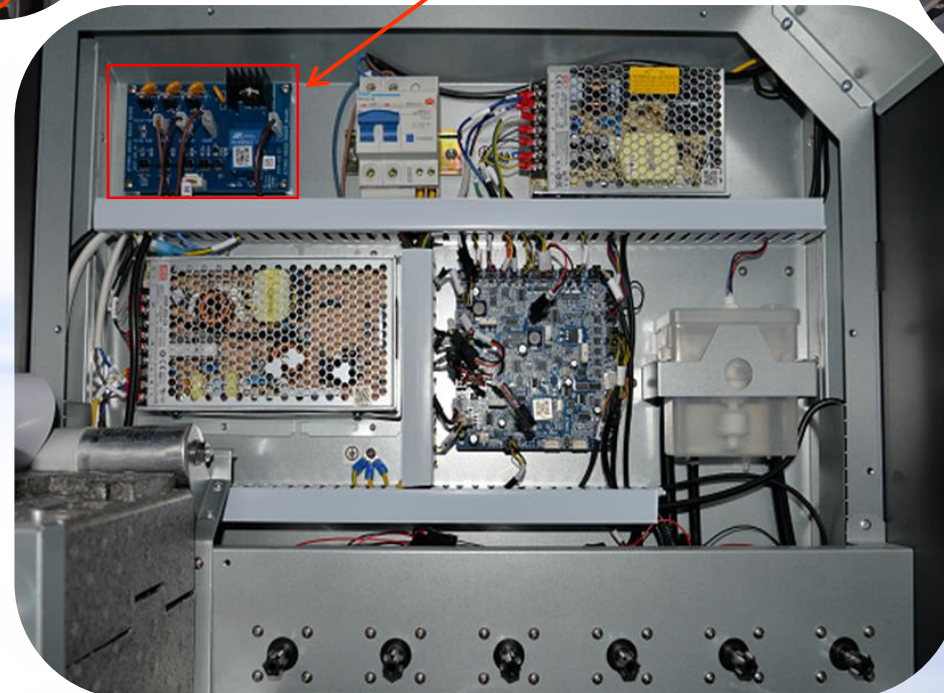


1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch. Remove the 4 screws and take off the cover plate.

2. Take pictures before unplugging to avoid insert the wrong place when resetting. Unplug all connections on the relay board.



3. Remove 4 screws on the relay board for board replacement



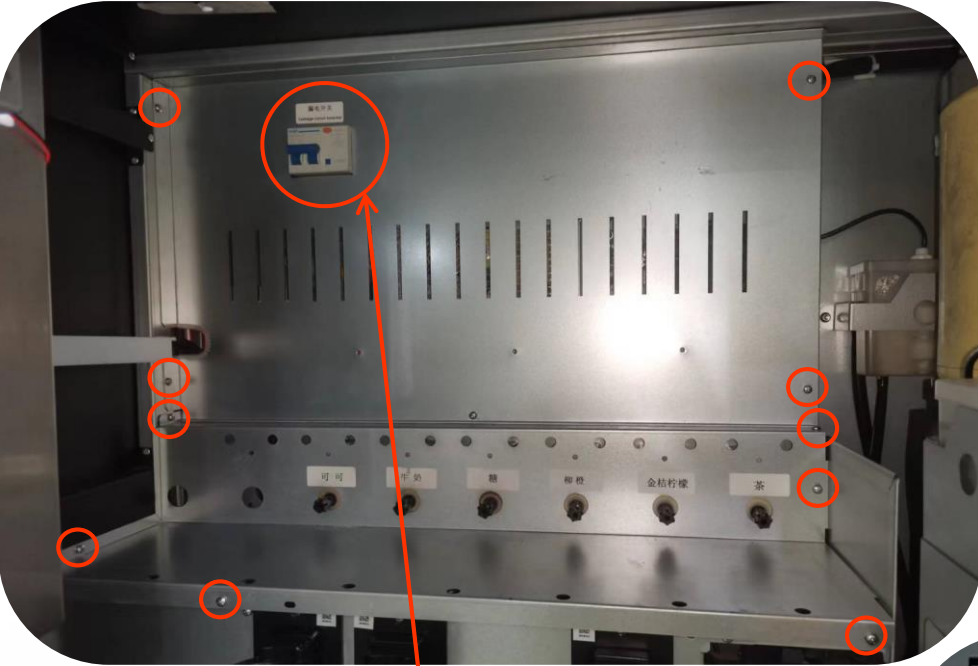
Door switch replacement manual

1. Power off, remove the screws and the cover plate. Unplug the internal USB extension cable when take out the cover.

2. Unplug door switch connector

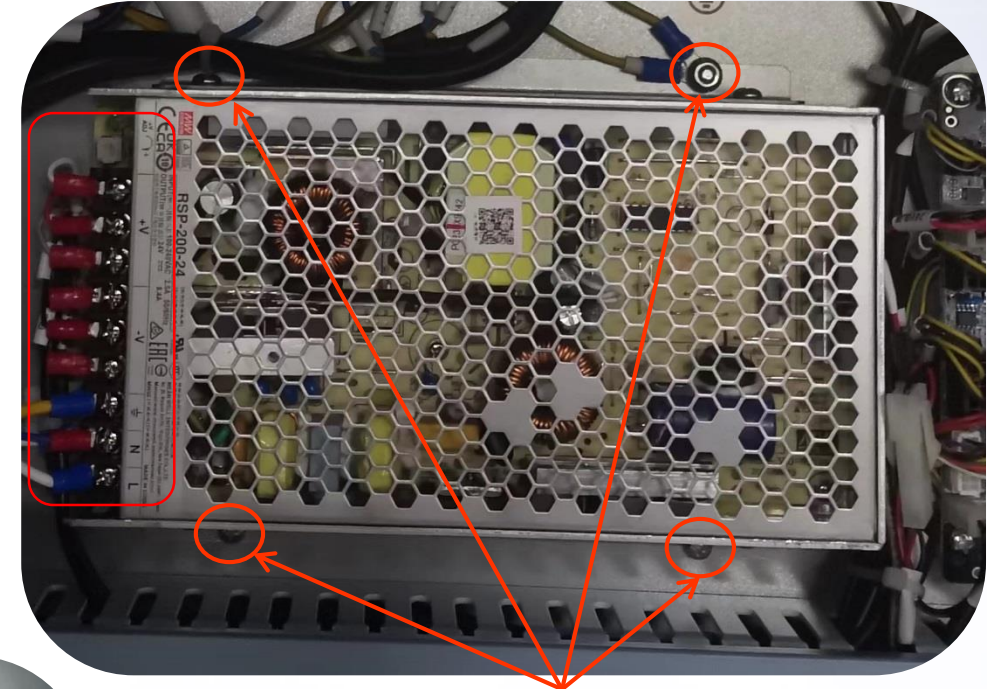
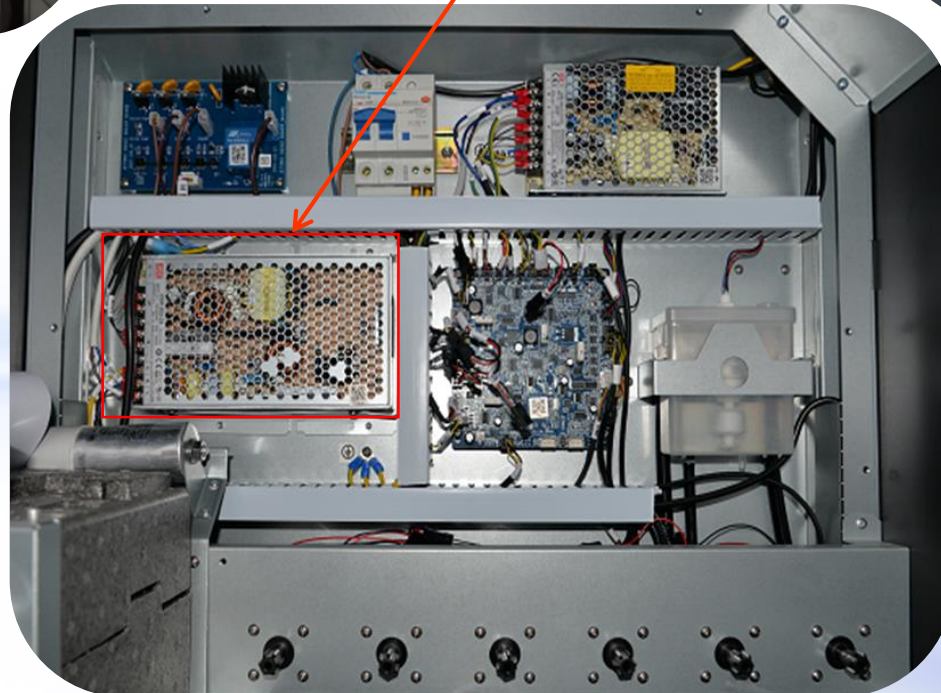
3. Finger press the clasp to rotate outward to pull out the door switch and replace it with a new one. Reset the machine parts. Installation method is reversed from the disassembly.

RSP-200-24 power replacement manual



1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch. Remove the 4 screws and take off the cover plate.

2. Take pictures before unplugging to avoid insert the wrong place when resetting. Unplug all connections on the 24V power board.



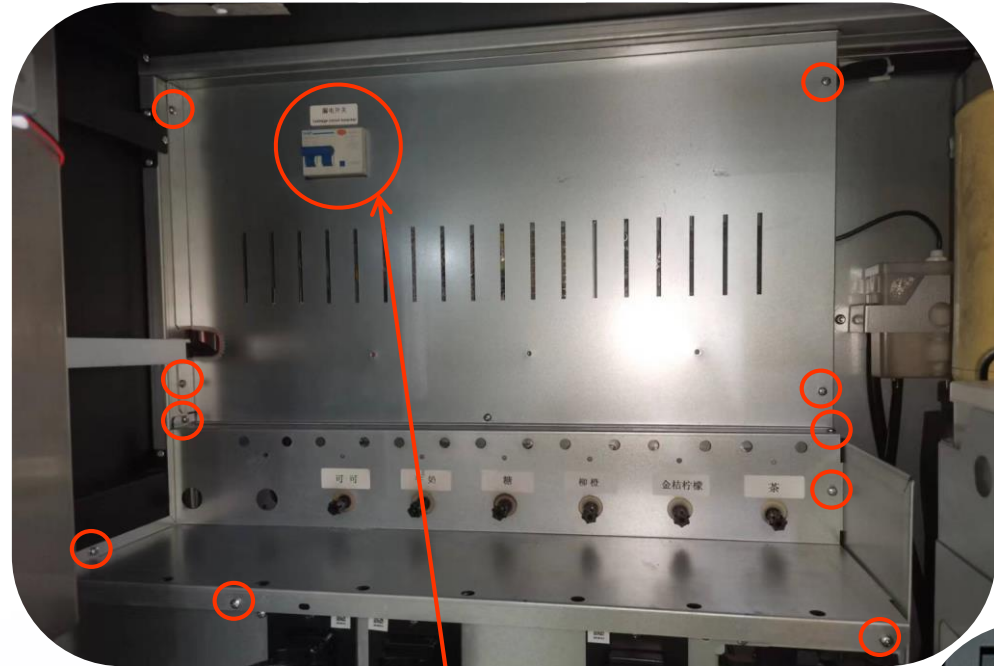
3. Remove the 24V switching power supply fixing nuts and replace them.

ATTENTION:

Take pictures before unplugging to avoid insert the wrong place when resetting. There are marks on the 24V terminals: L-live wire, N-null line, +V-output end&24V positive, -V-output end&24V negative

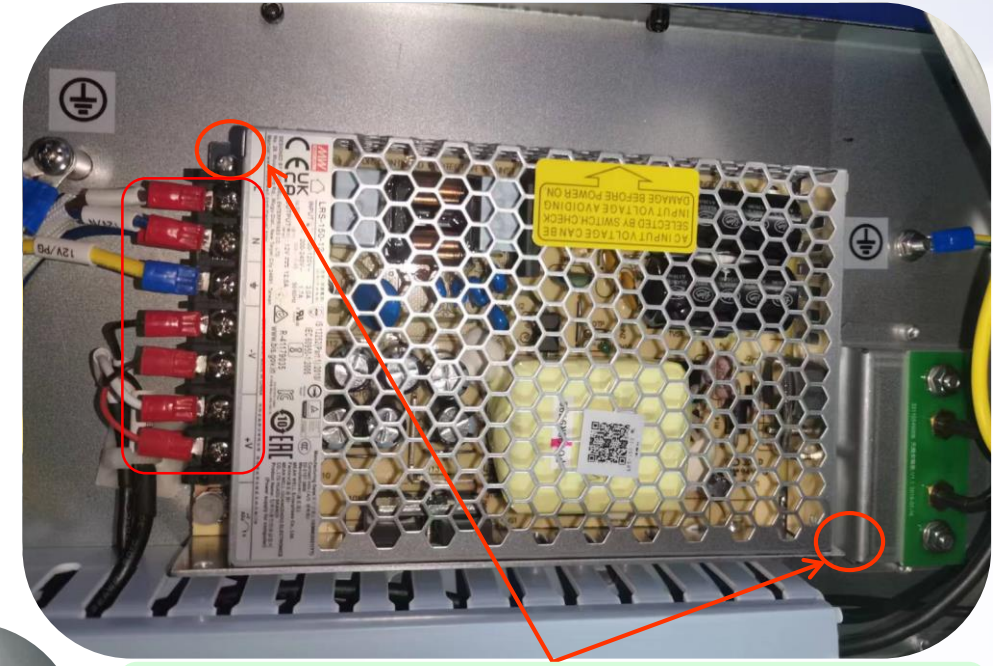
⚡ Ground wire mark, this can not be connected to the wrong!!!

LRS-150-12 power replacement manual

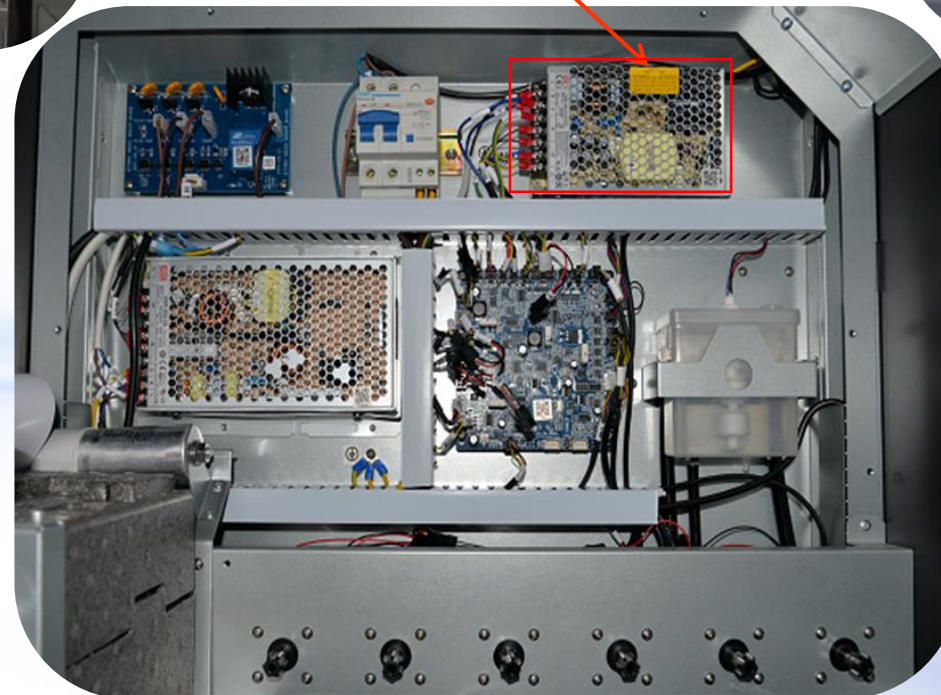


1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch. Remove the 4 screws and take off the cover plate.

2. Take pictures before unplugging to avoid insert the wrong place when resetting. Unplug all connections on the 12V power board.



3. Remove the 12V switching power supply fixing nuts and replace them.

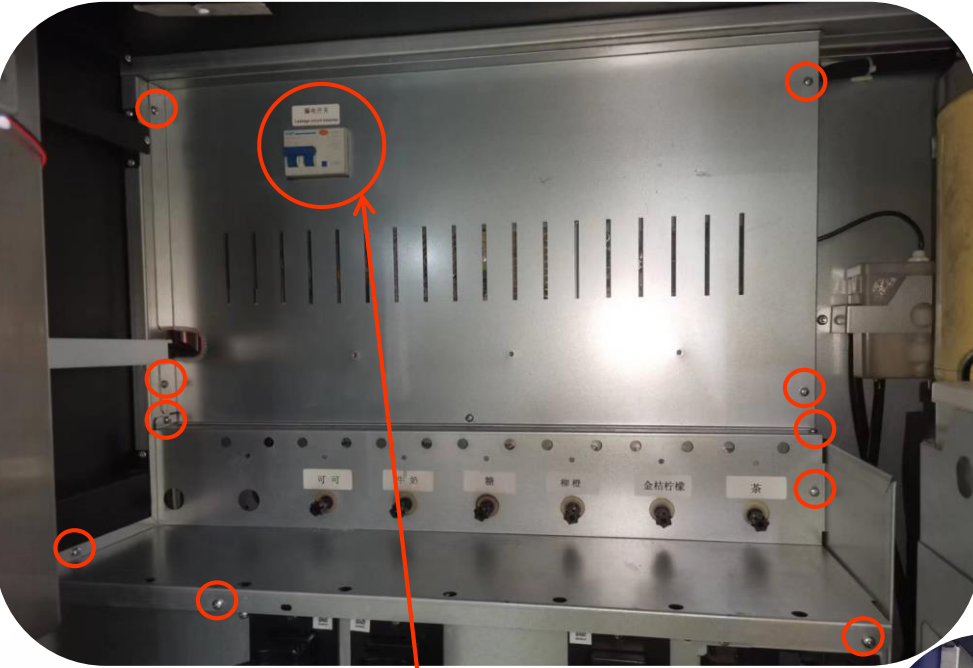


ATTENTION:

Take pictures before unplugging to avoid insert the wrong place when resetting. There are marks on the 24V terminals: L-live wire, N-null line, +V-output end&24V positive, -V-output end&24V negative

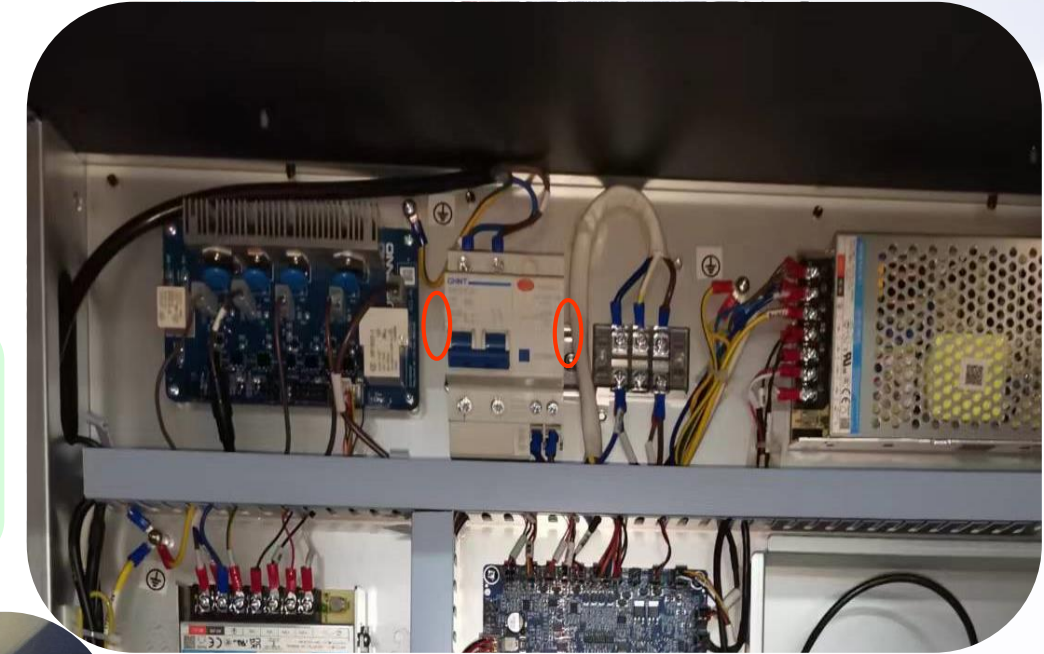
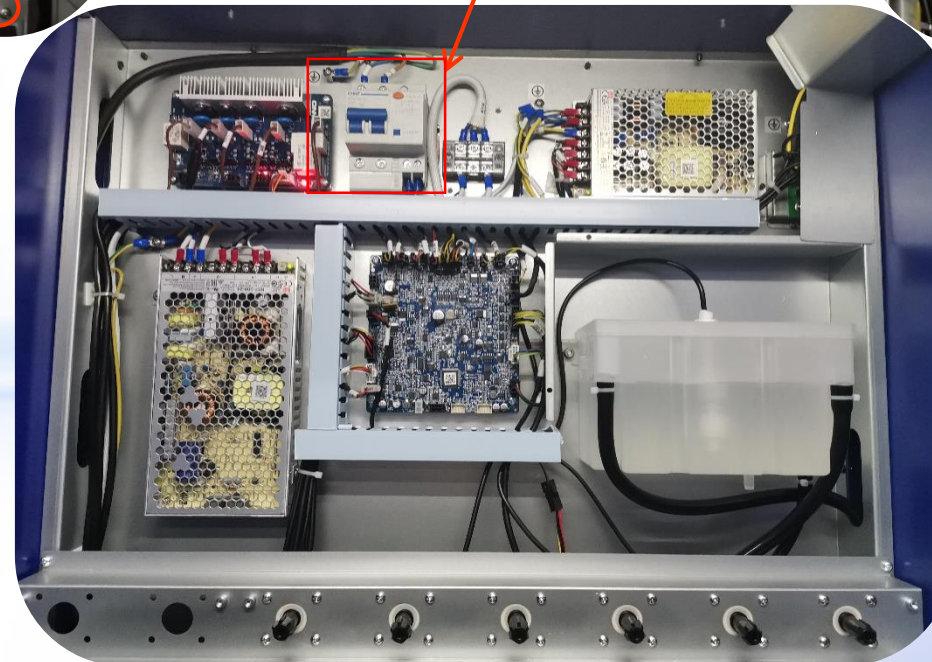
⚡ Ground wire mark, this can not be connected to the wrong!!!

Leakage switch replacement manual



1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch. Remove the 4 screws and take off the cover plate.

2. Take pictures before unplugging to avoid insert the wrong place when resetting. Unplug the connection cable on the leakage switch



3. Remove the leakage switch sheet metal screws and remove the leakage switch for replacement.

ATTENTION: For the strong electrical part, the power must be unplugged.

LED light replacement manual

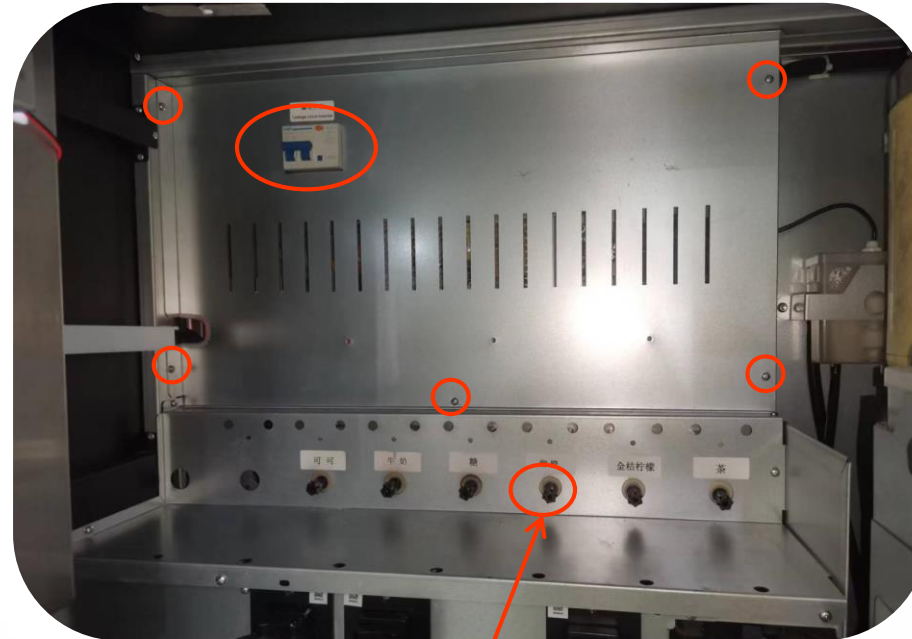
1. Power off, remove the screws and the cover plate. Unplug the internal USB extension cable when take out the cover.

2. Unplug the connector of the LED light, remove it from the snap, then can replace it

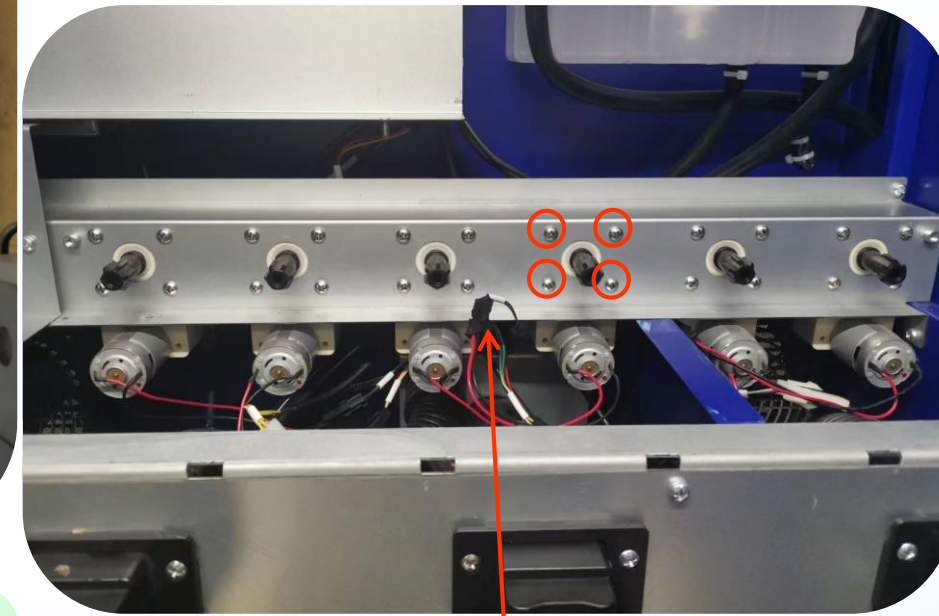
Motor (BO26) replacement manual



1. Access to machine management system, click on [Open Machine Door], open it and remove six canisters. Turn off the leakage protection switch.

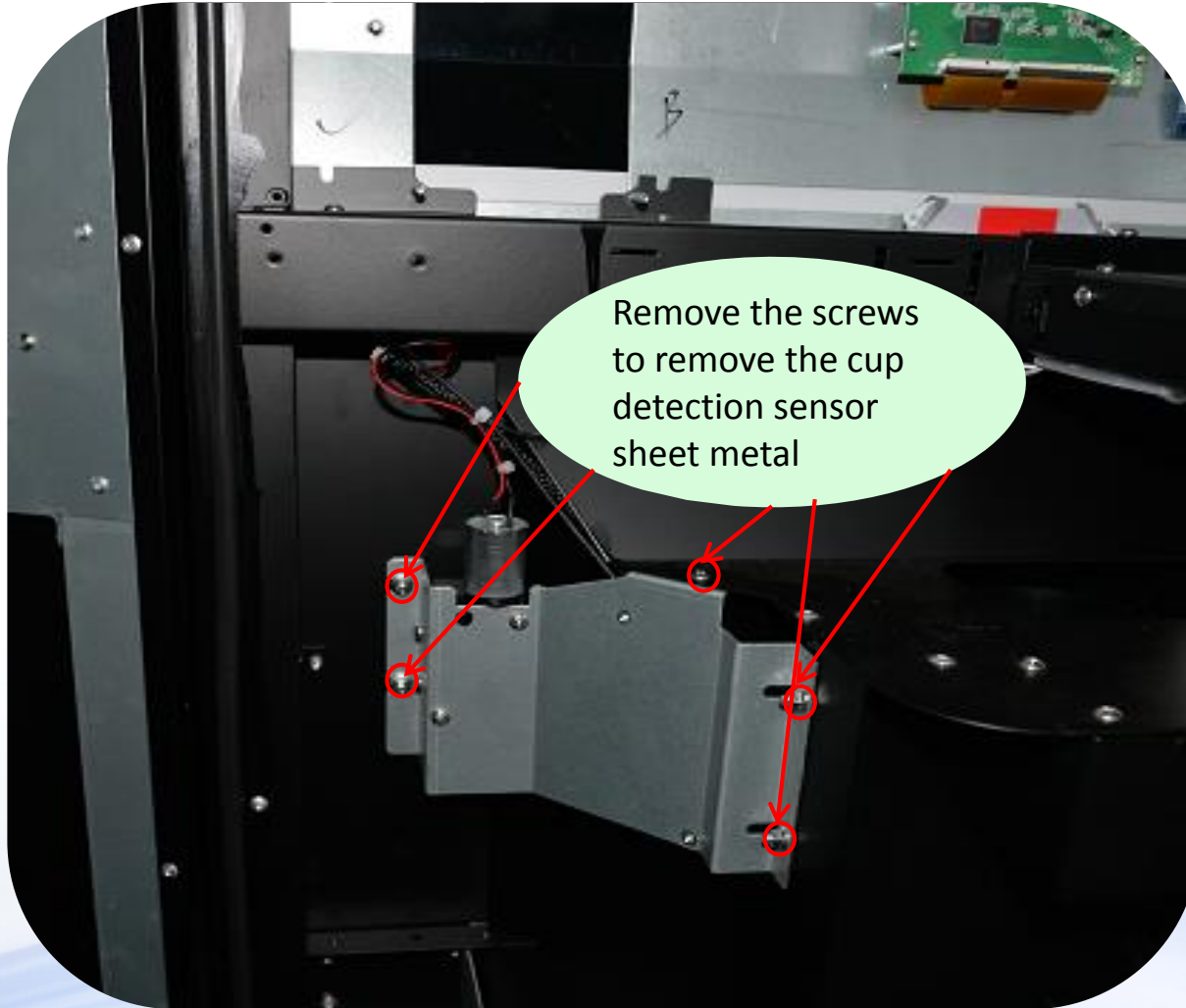


2. Unplug the motor shaft of the corresponding canister to be replaced. Remove the 6 screws, take off the sheet metal parts.

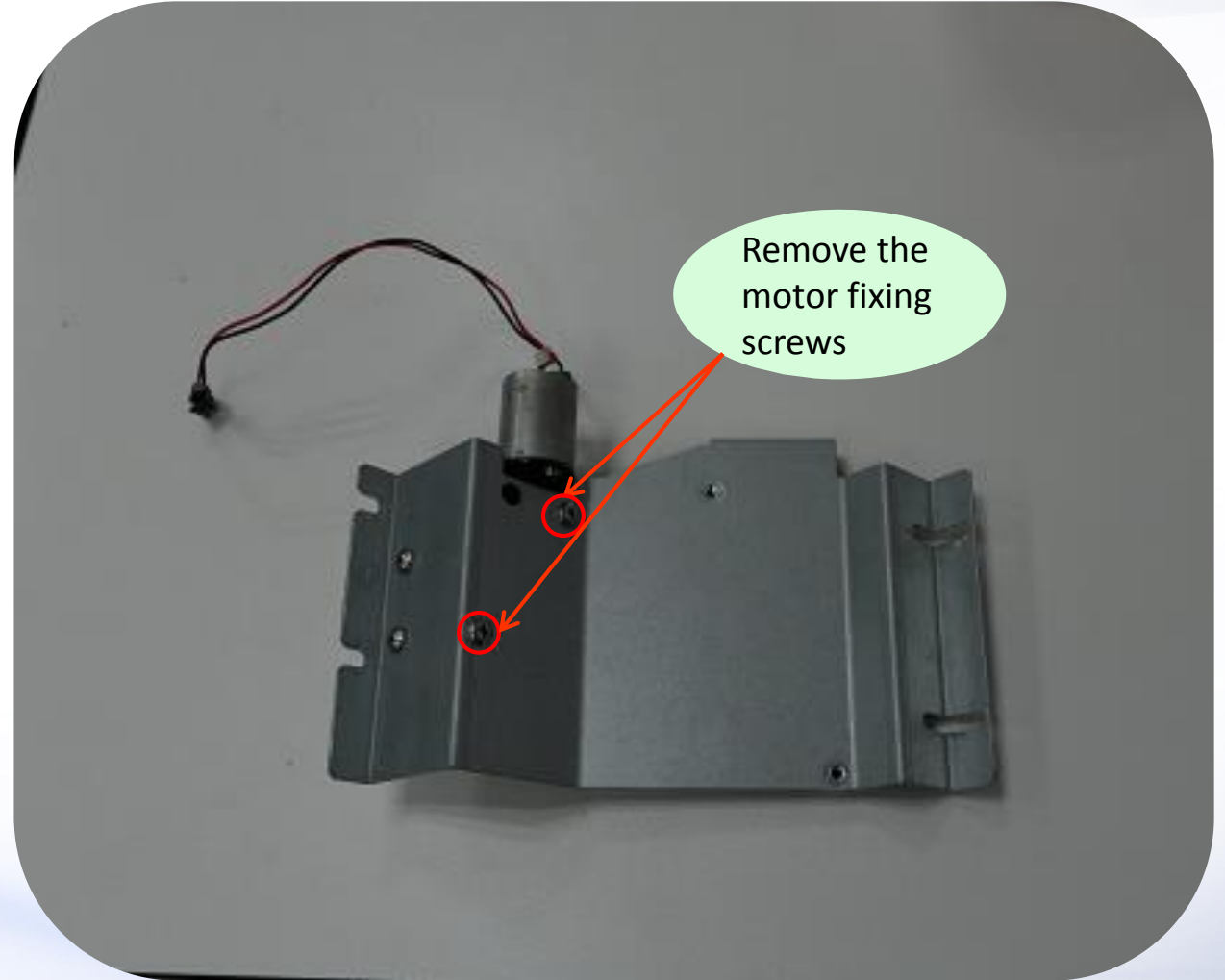


3. Unplug the canister motor connector, use a Phillips screwdriver to remove the motor to be replaced and replace it with a new one. After replacing the motor, reset the machine parts and power on. Do the [Canister Powder Dropping Test] for the corresponding canister and do the calibration.

86132 Motor replacement manual



Remove the sheet metal

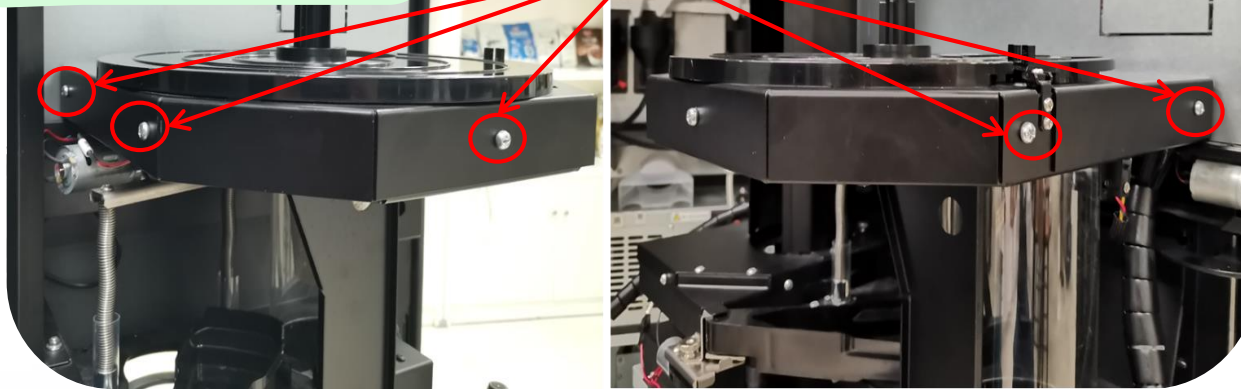


Remove the motor for replacement

Cup detected sensor (send/receive) replacement manual

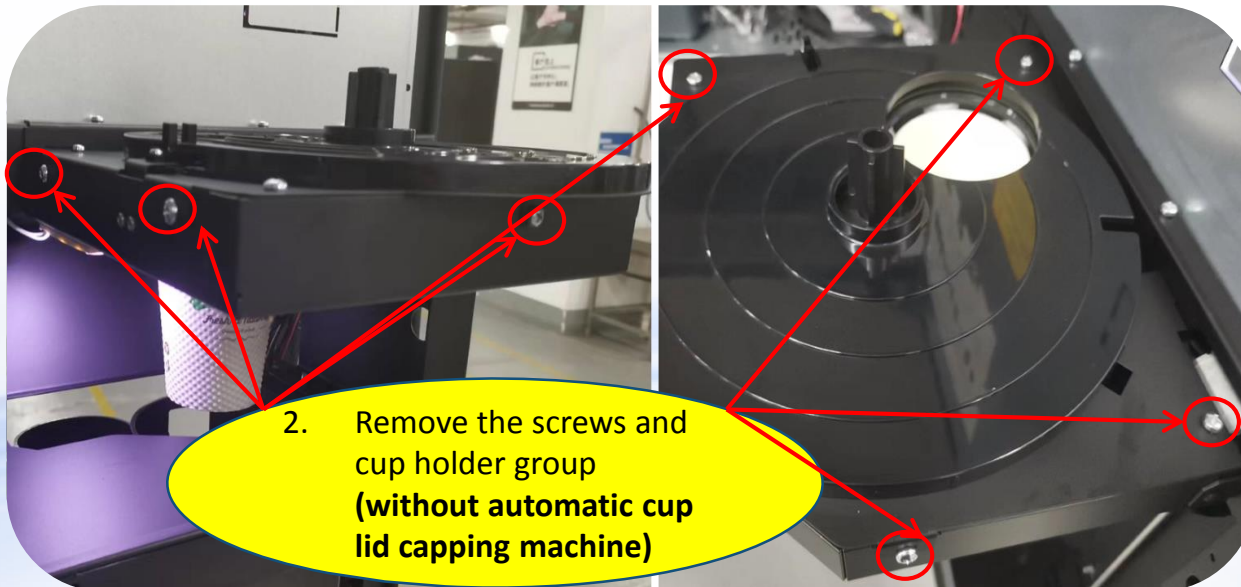
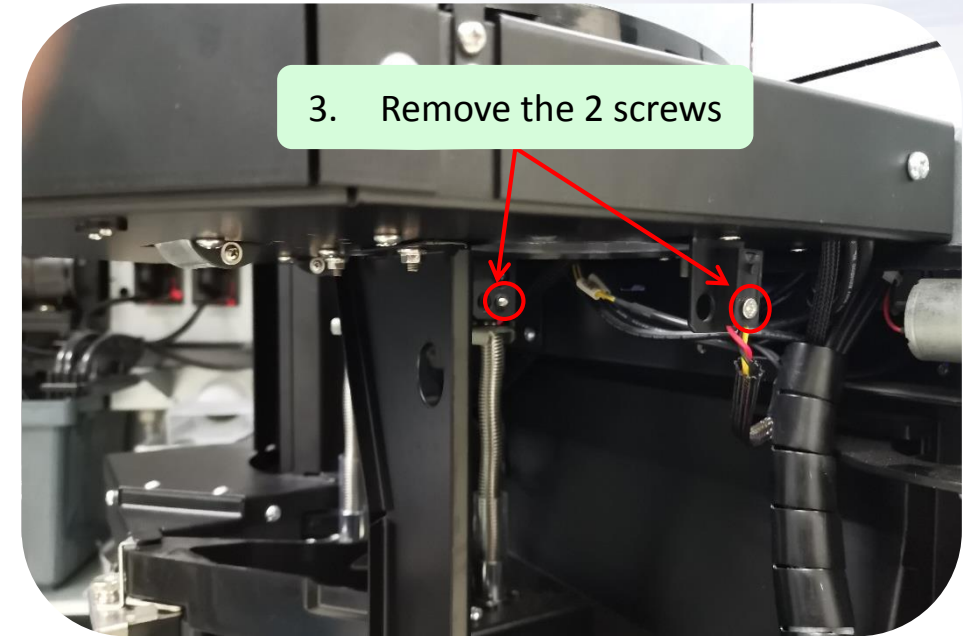


1. Access to machine management system, click [Open Machine Door] and take out the cup barrel. Turn off the machine power. Remove the screws according to the structure of the plate



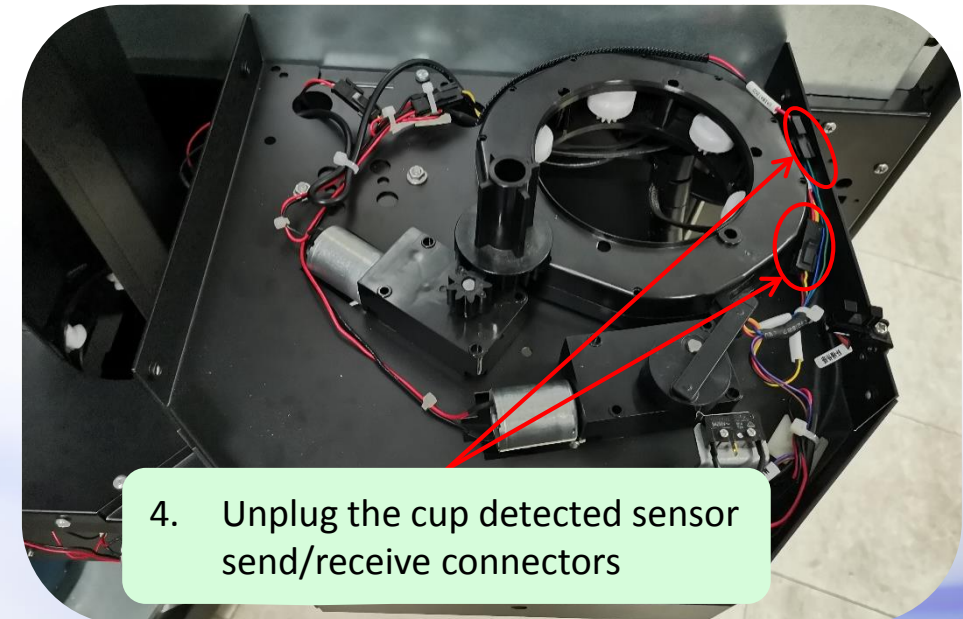
2. Remove the screws and cup holder group **(with automatic cup lid capping machine)**

3. Remove the 2 screws



2. Remove the screws and cup holder group **(without automatic cup lid capping machine)**

4. Unplug the cup detected sensor send/receive connectors



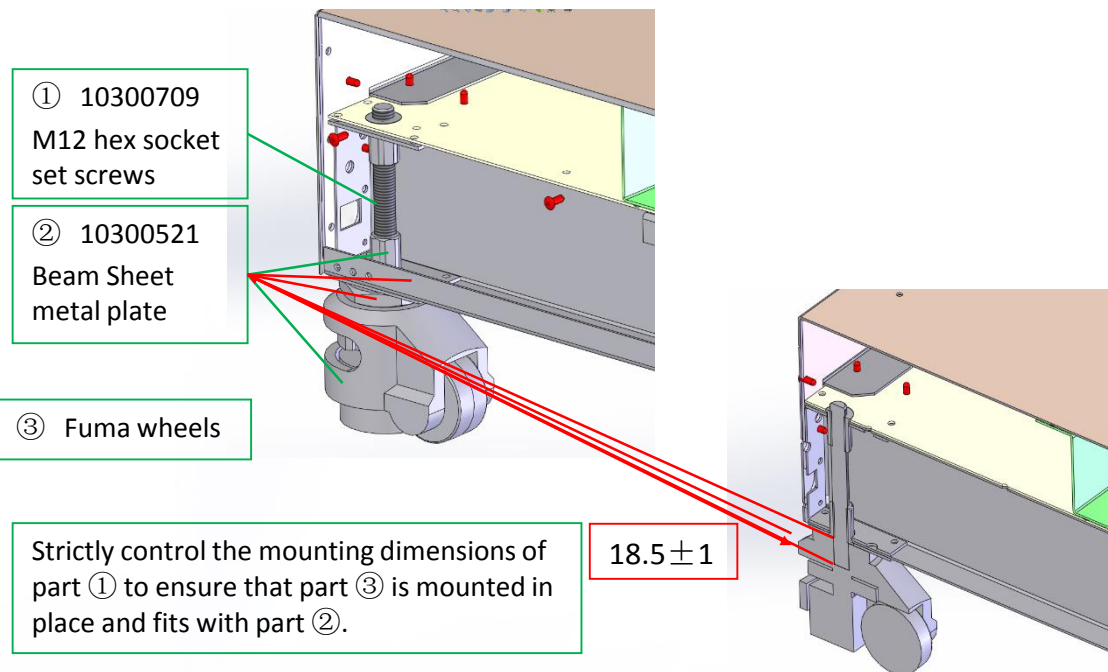
5. Install the new cup detected sensor in the original position, reset machine and do the transport cup test. Installation method is reversed from the disassembly.

Cup door detected sensor (send/receive), LED light replacement manual



1. Access to machine management system, click [Open machine door]. Remove the screws on both sides of the cup door, cut the tie, unplug the connector. Remove the sensors and LED light, then can replace them

Fuma wheel replacement manual

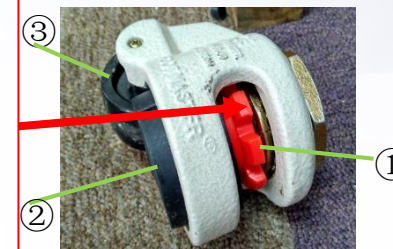


1. Check before installation

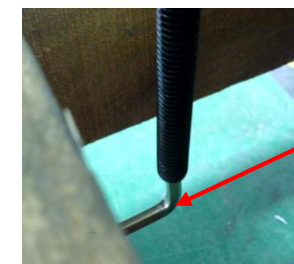
a. Check if the
foam wheel is
intact.



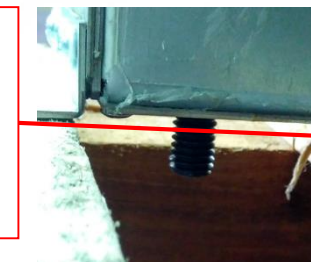
b. Make sure ②
does not
protrude ③ by
rotating ① to
adjust the fuma
wheel height to
the lowest.



Install screw



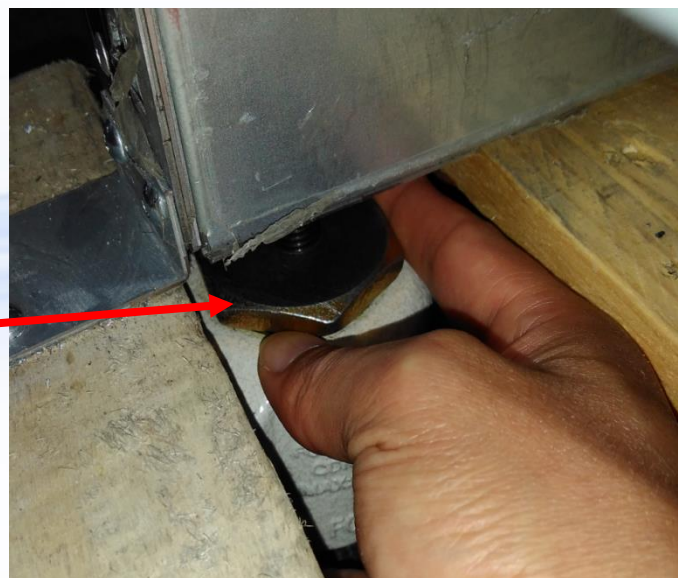
Use an Allen
wrench to install
the screw. Ensure
match the
dimensions shown
on the right.



18.5 ± 1

2. Install fuma wheels

a. Align the hexagonal nut
of the fuma wheel with
the bolt on the machine and turn the nut
counterclockwise to
make them fit

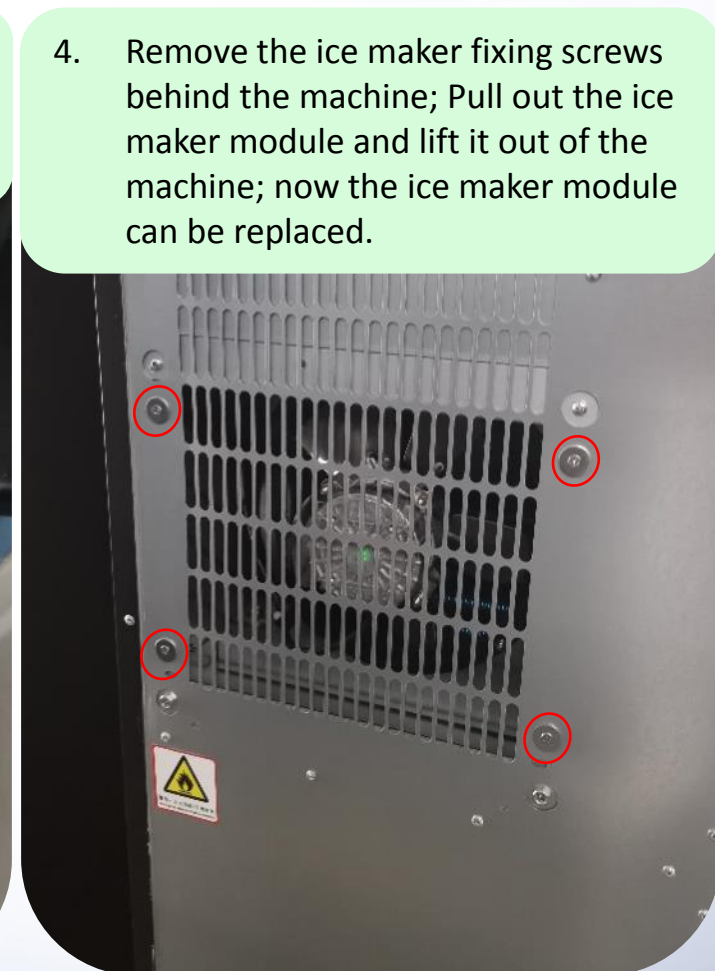
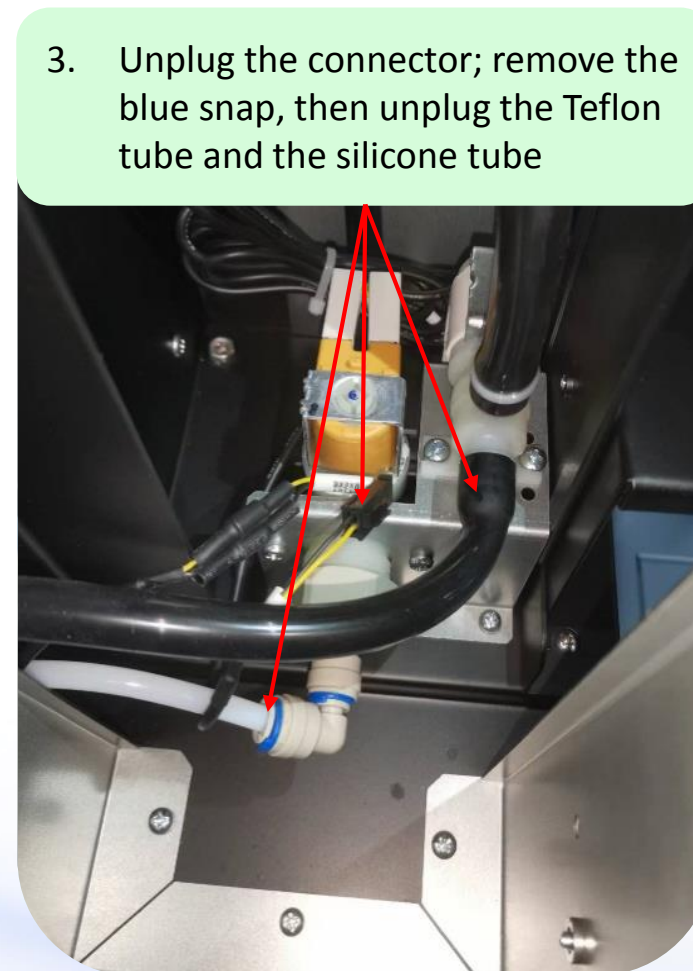
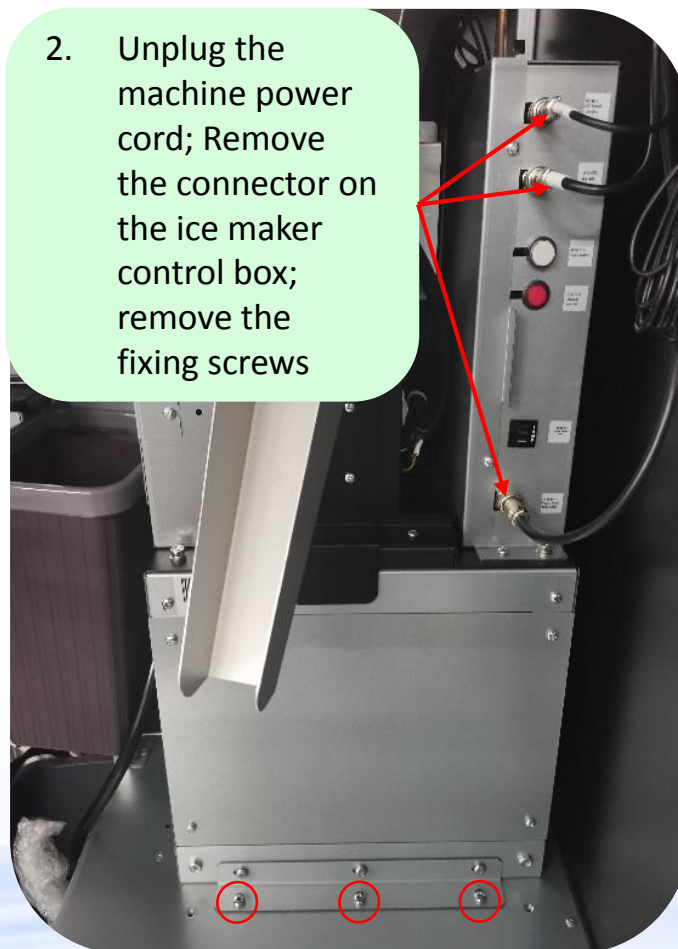
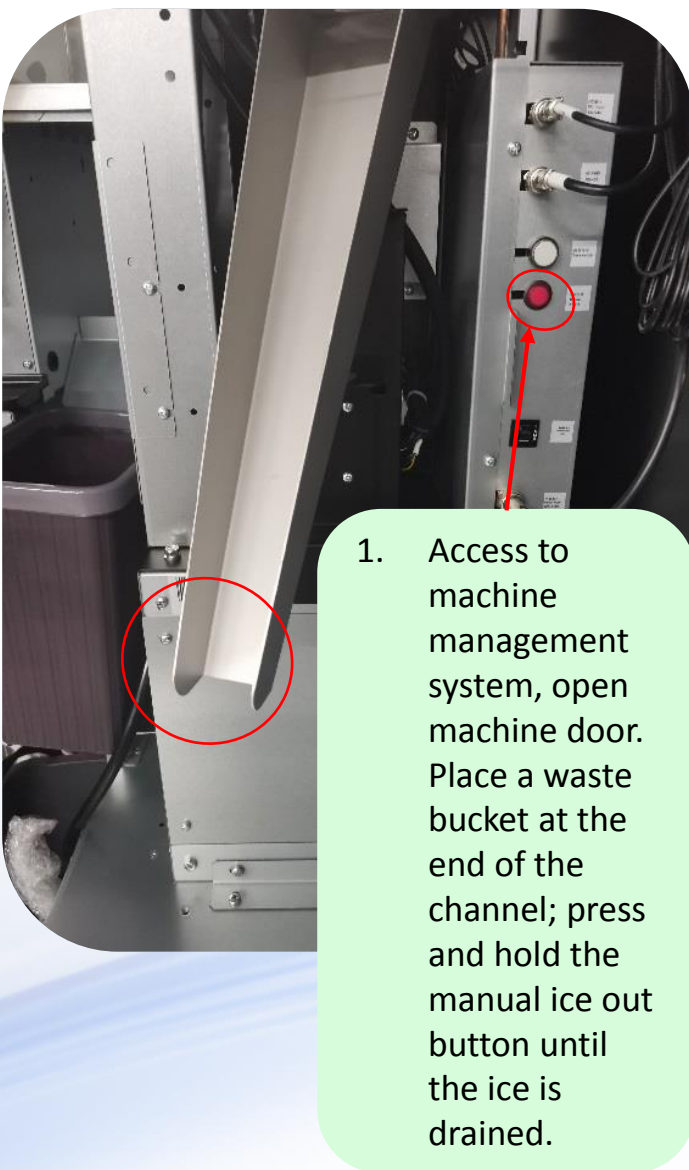


b. Use a wrench to tighten the hexagonal
nut of the fuma wheel to prevent
loosening when the unit moves. By
now, 1 fuma wheel installation is
completed. Repeat the above steps to
complete the installation at the
remaining 3 locations.

SUGGESTION: The supplier should nail the
machine to the wood pallet after the fuma
wheels installation is completed.



Built-in ice maker replacement manual

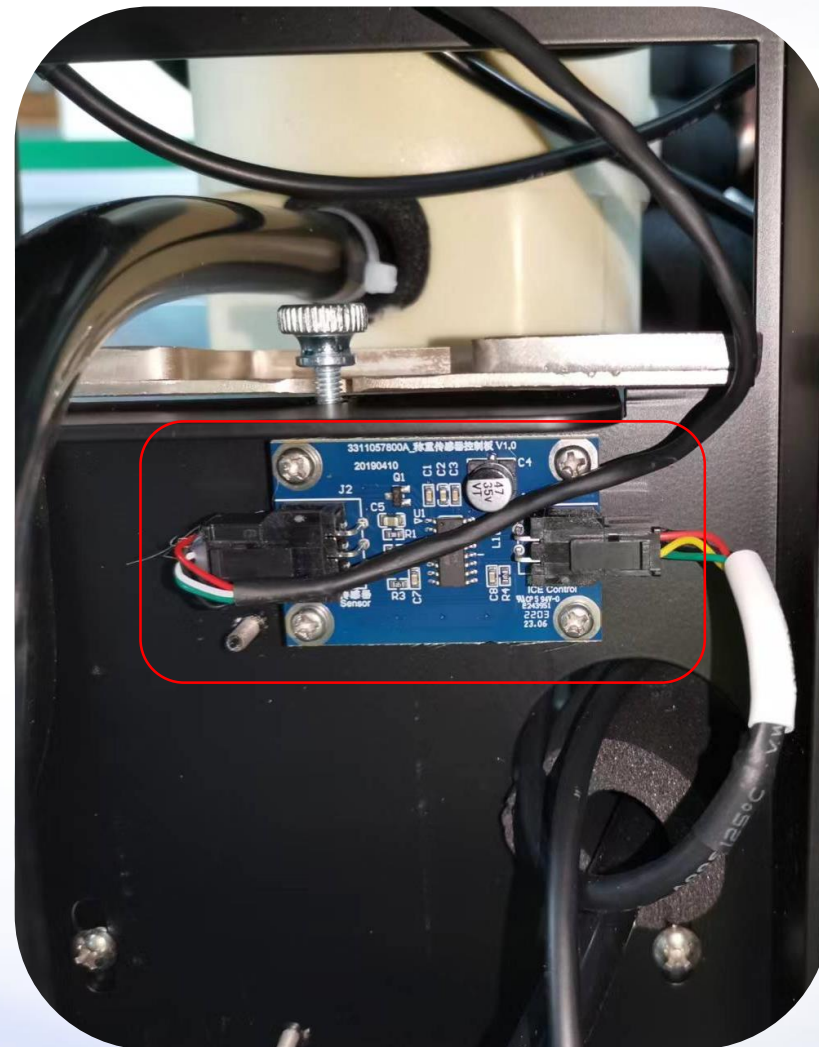
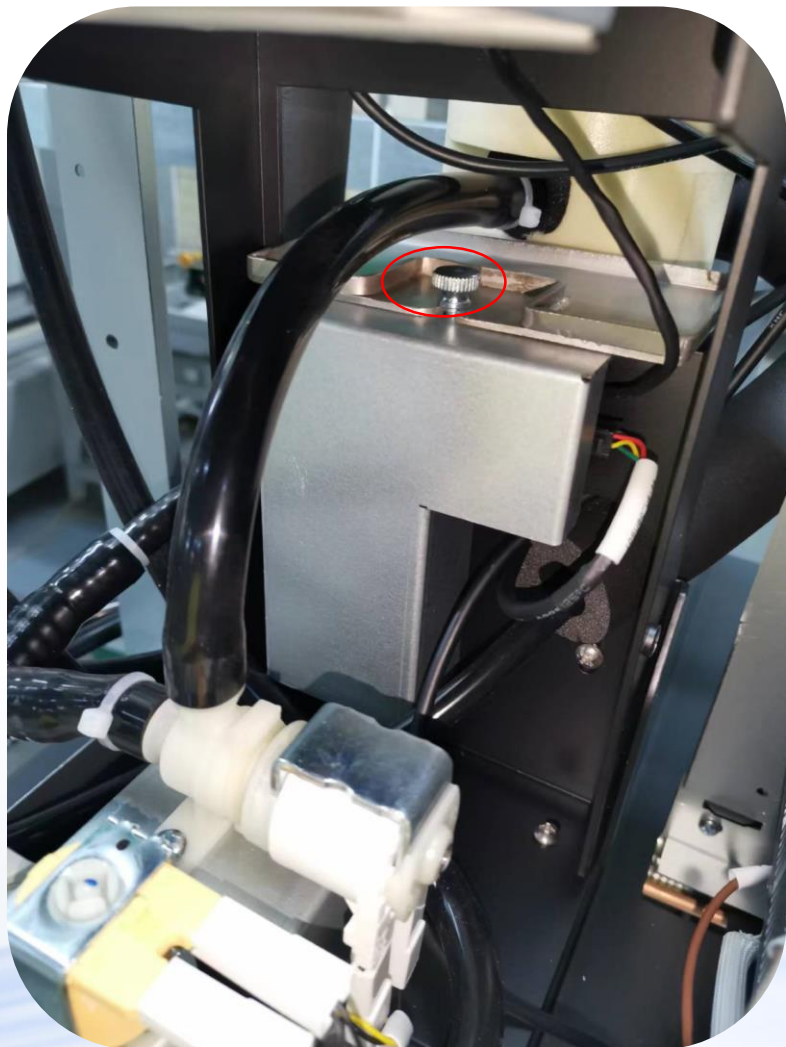


Ice Control Board V1.5 (circuit board) replacement manual



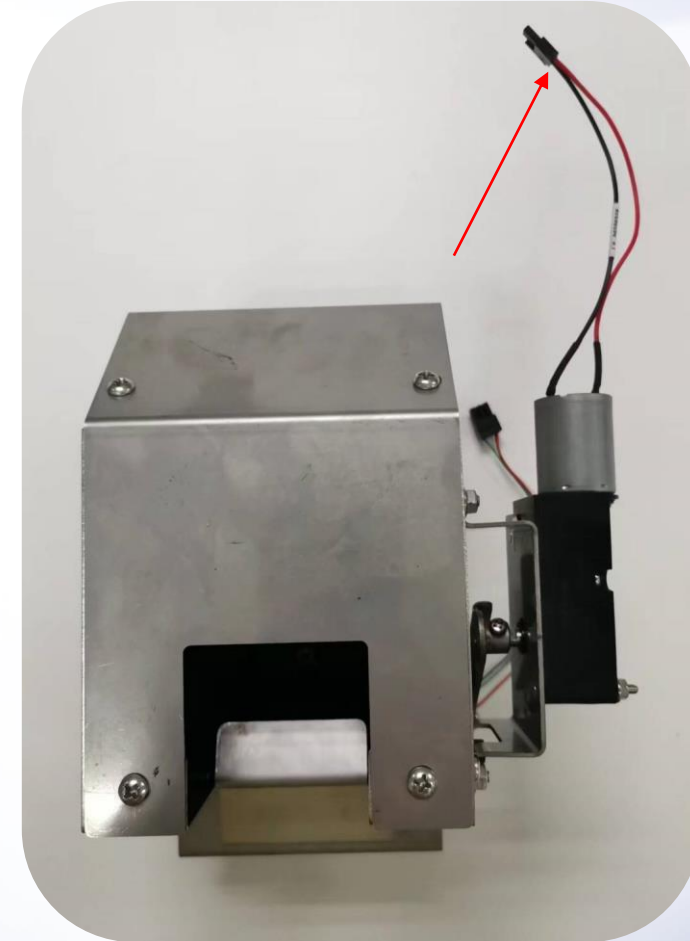
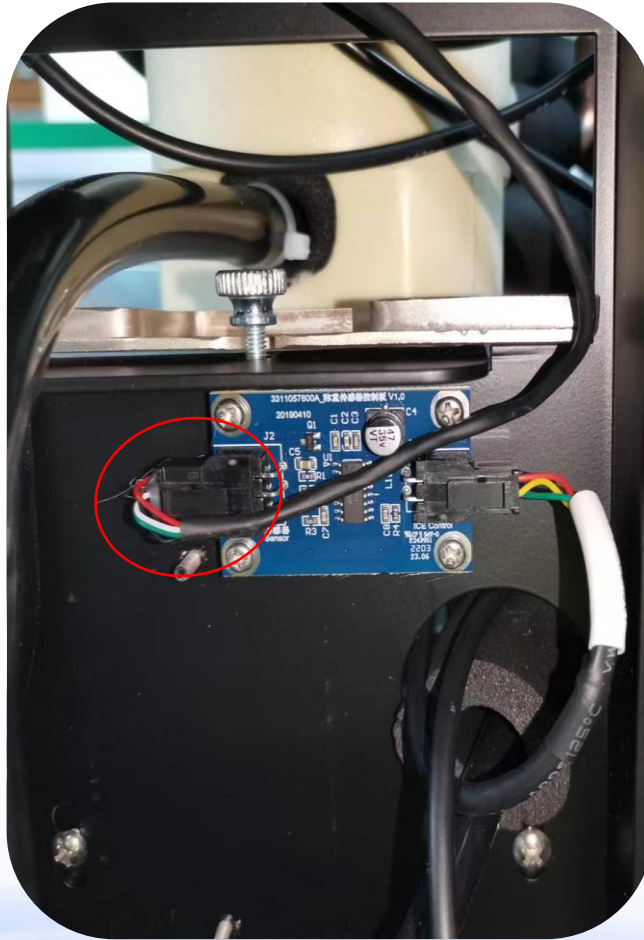
Access to machine management system, open machine door; turn off the **power switch** on the ice maker control box. Use a screwdriver to remove the control box fixing screws, cover screws, pull out the cover plate. Unplug all connections on the ice control board and remove the screws for replacement

Weighing sensor control board replacement manual



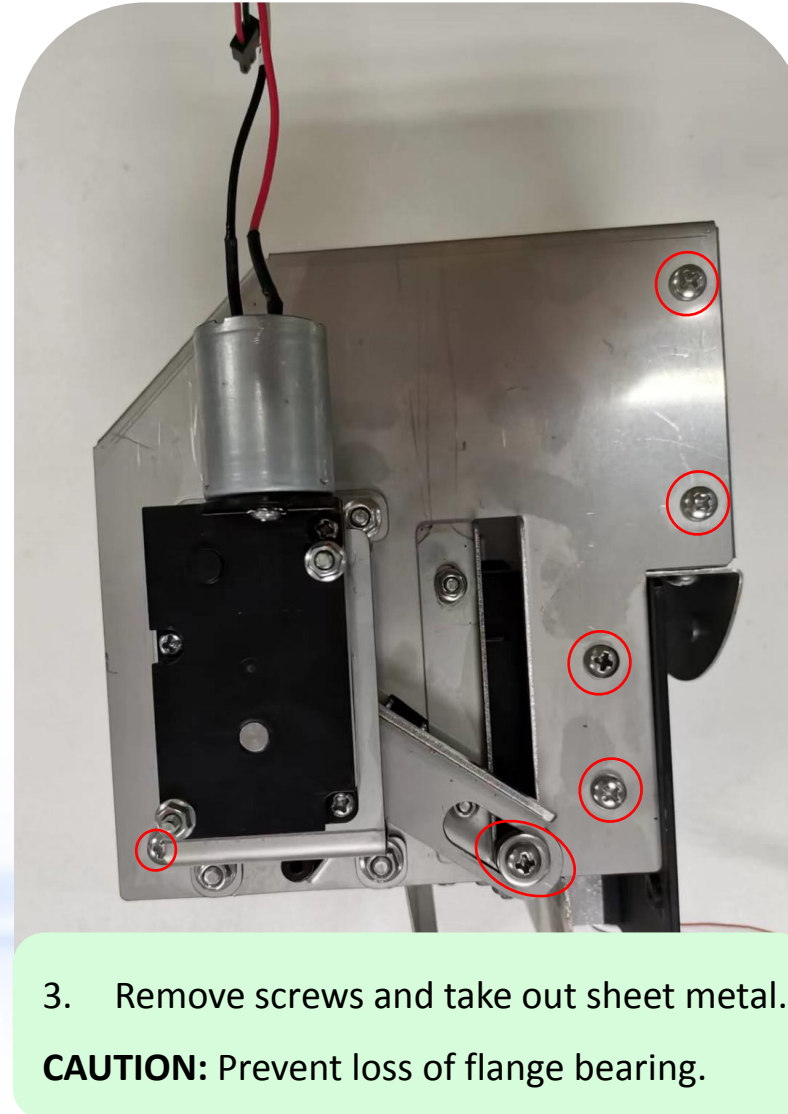
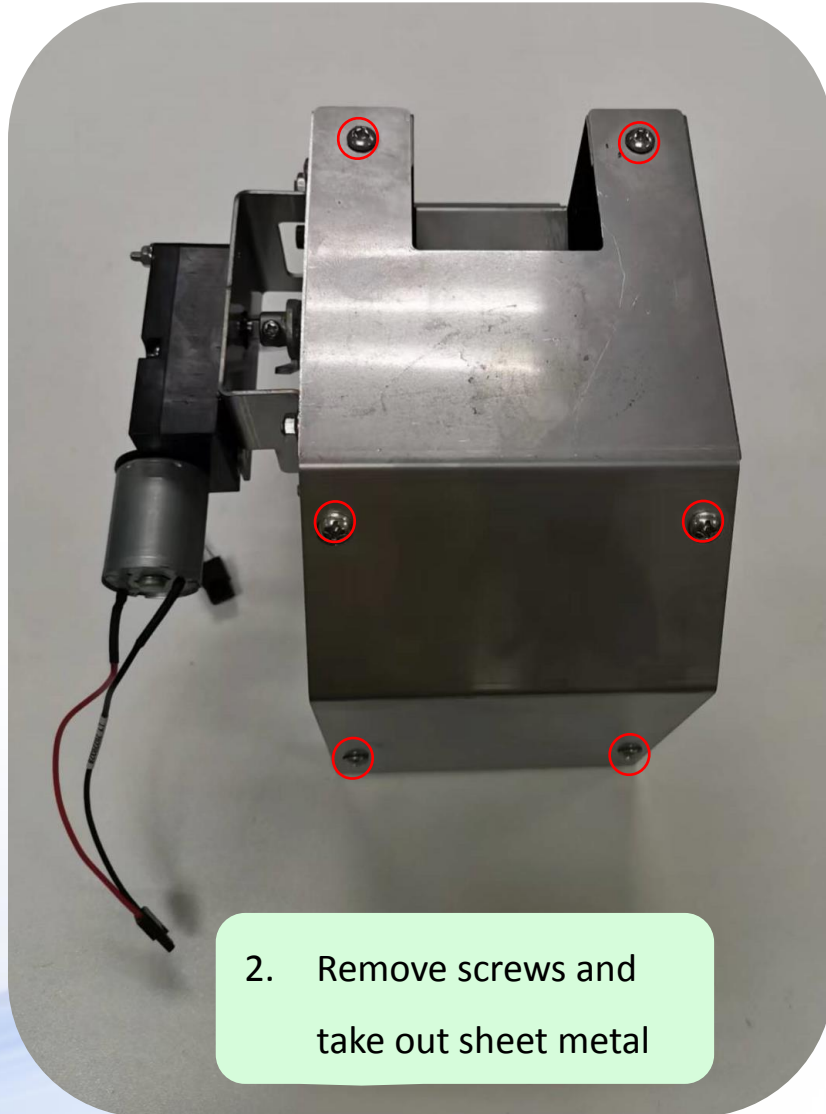
Access to machine management system, open machine door; turn off the **power switch** on the ice maker control box. Unscrew the screw manually and remove the sheet metal. Unplug all connections on the weighing sensor control board and remove the screws for replacement

Ice catcher replacement manual - 1

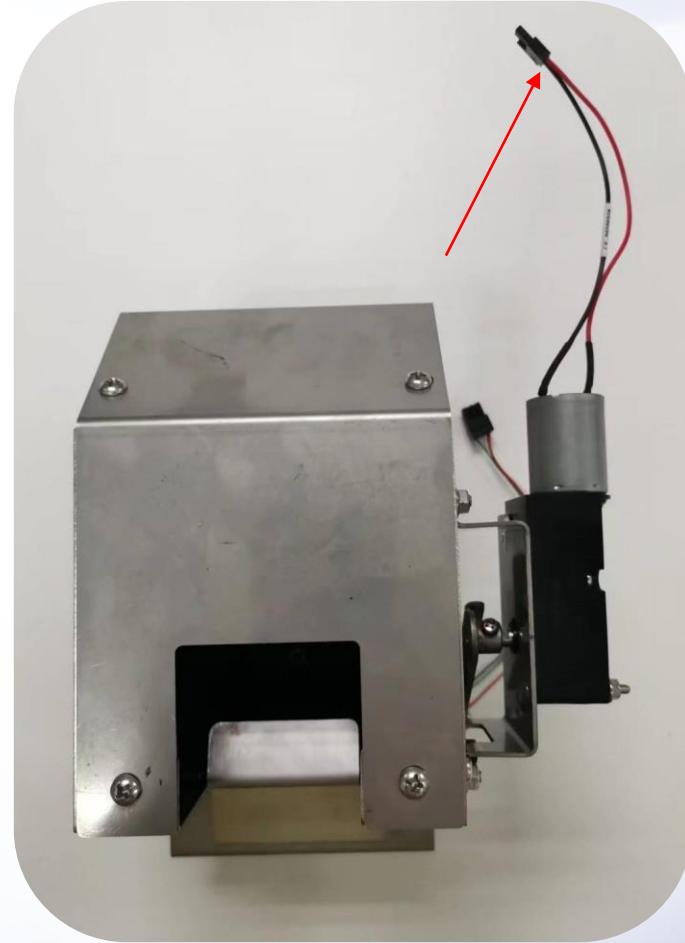


Access to machine management system, open machine door; turn off the **power switch** on the ice maker control box. Unscrew the screw manually and remove the sheet metal. Unplug the connector on the weighing sensor control board and the motor connector, remove the screws and the weighing module.

Ice catcher replacement manual - 2

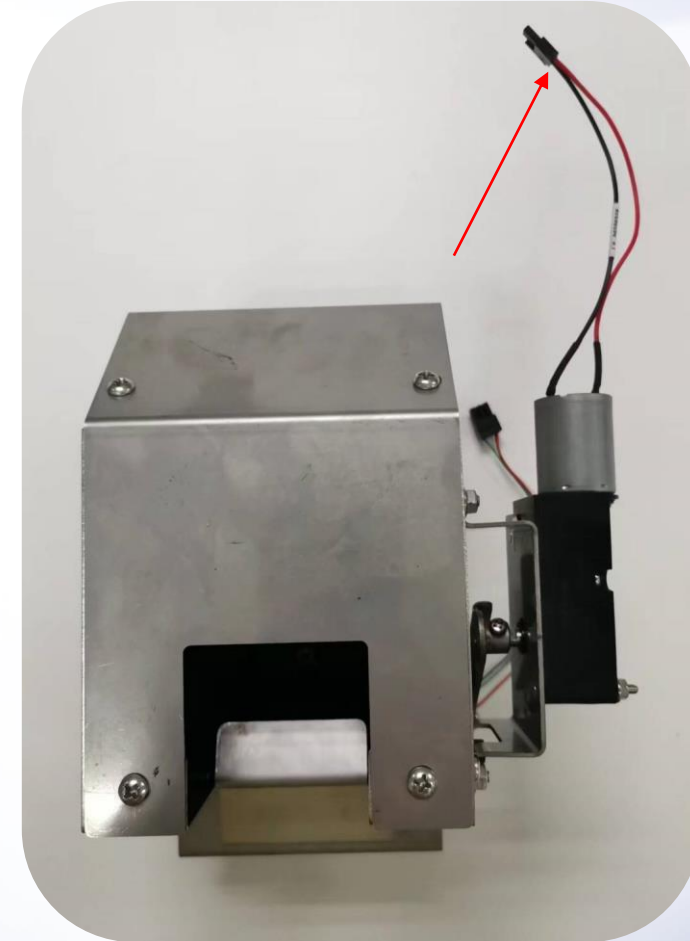
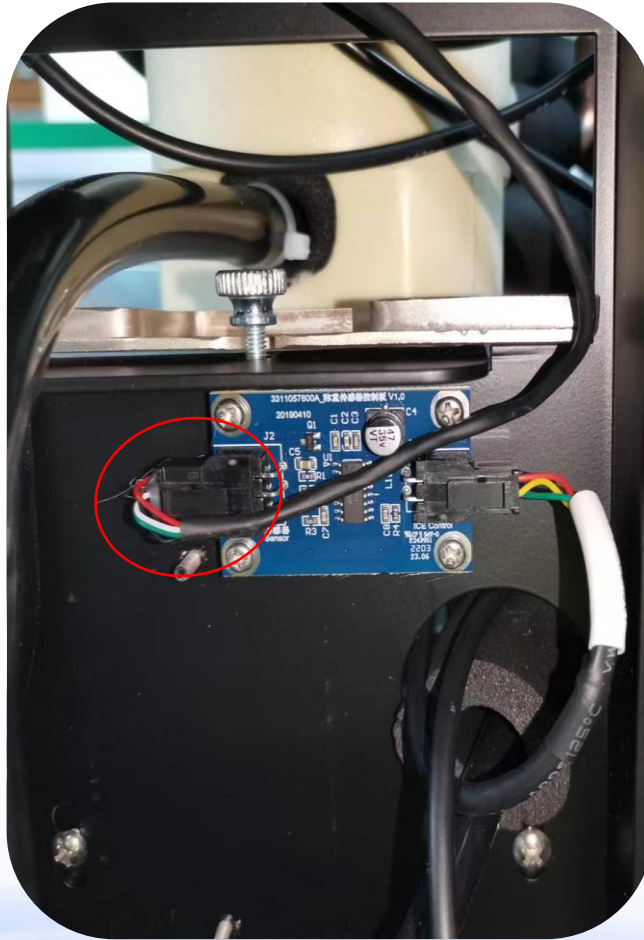


Weighing tray replacement manual



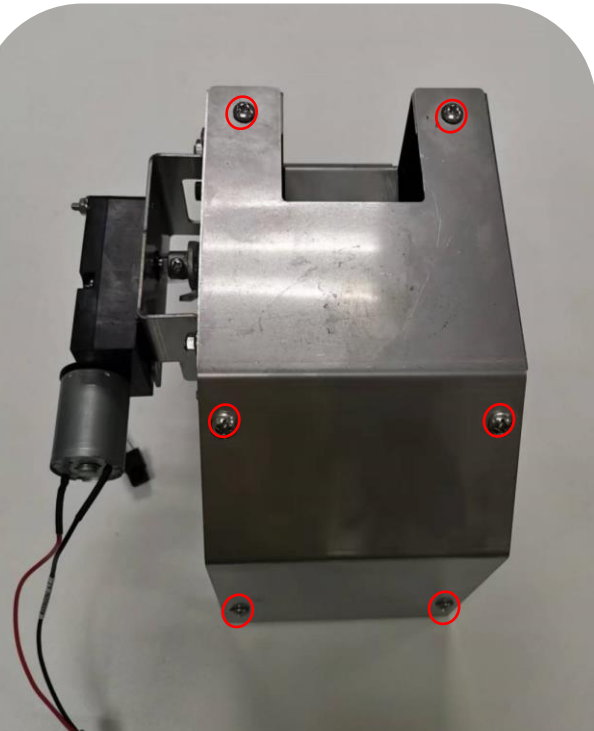
Access to machine management system, open machine door; turn off the **power switch** on the ice maker control box. Unscrew the screw manually and remove the sheet metal. Unplug the connector on the weighing sensor control board, remove the screws and the weighing module, then can replace it.

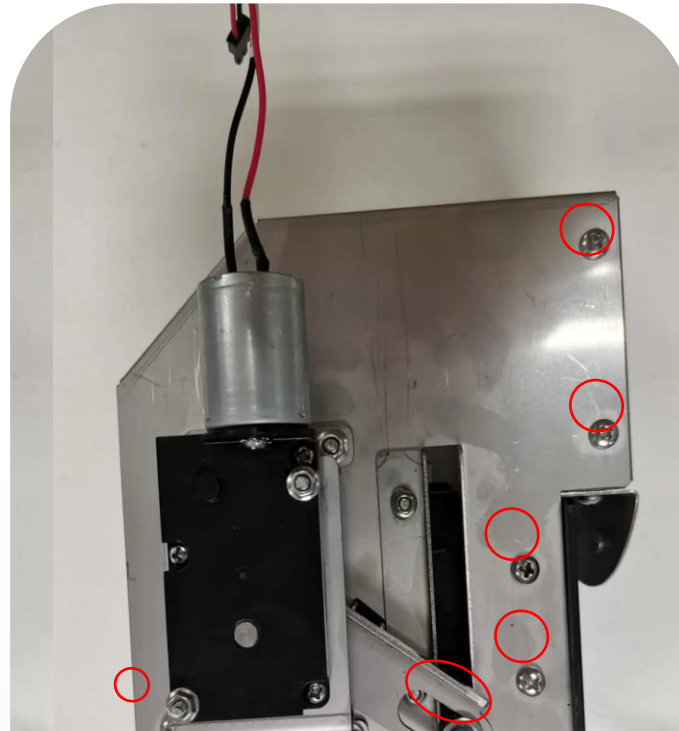
Electronic scale replacement manual - 1



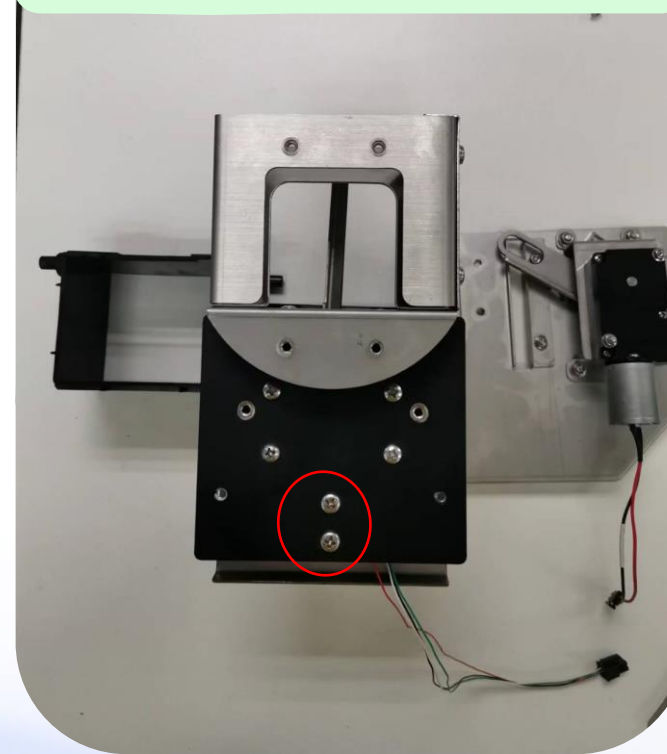
1. Access to machine management system, open machine door; turn off the **power switch** on the ice maker control box. Unscrew the screw manually and remove the sheet metal. Unplug the connector on the weighing sensor control board, remove the screws and the weighing module

Electronic scale replacement manual - 1

- 
2. Remove screws and take out sheet metal

- 
3. Remove screws and take out sheet metal.
CAUTION: Prevent loss of flange bearing.

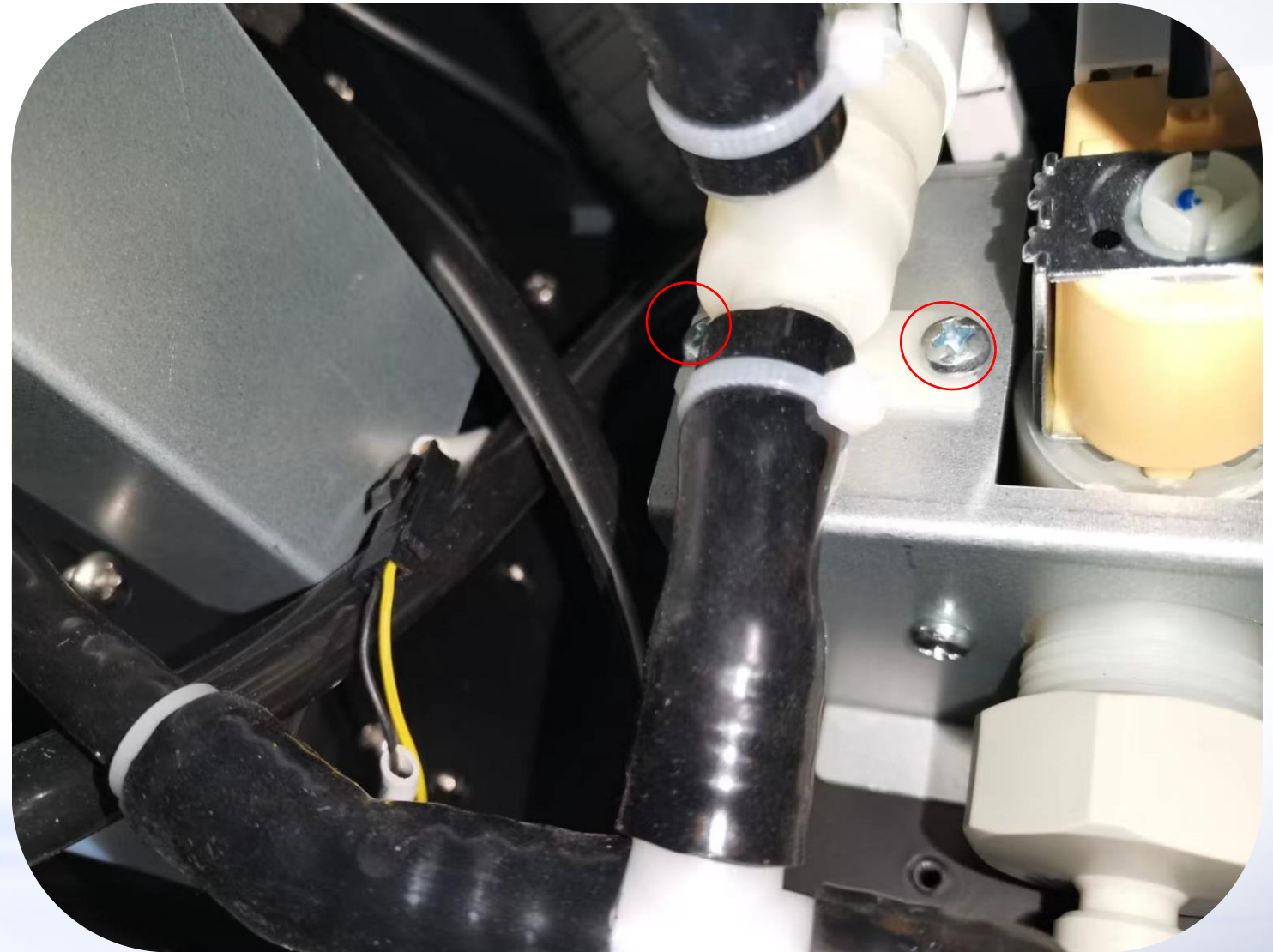
4. Take out ice catcher and remove the electronic scale fixing screws.



5. Remove the screws for electronic scale replacement

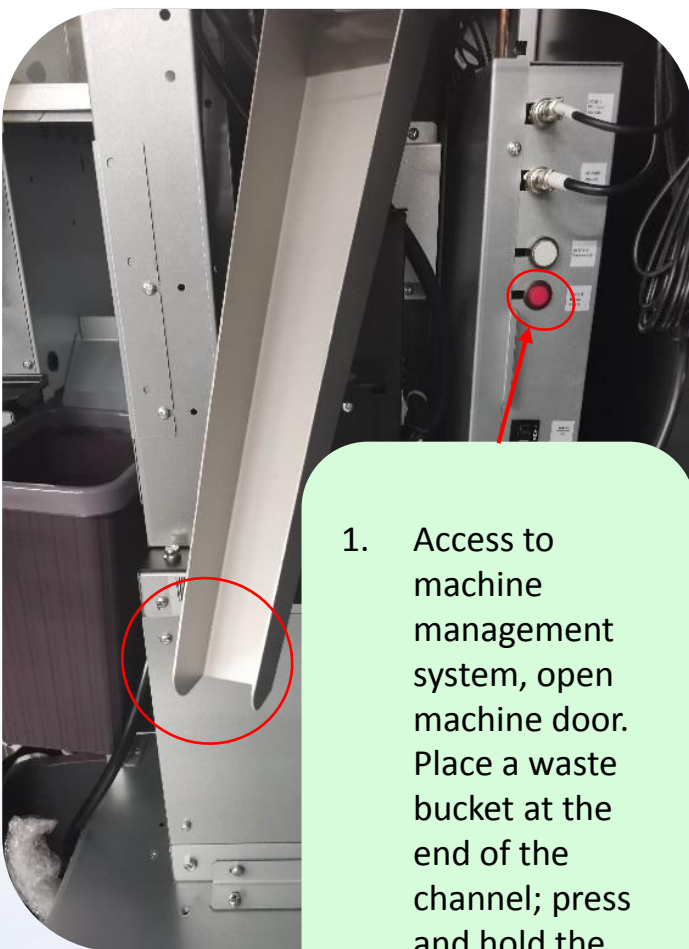


Drain valve replacement manual

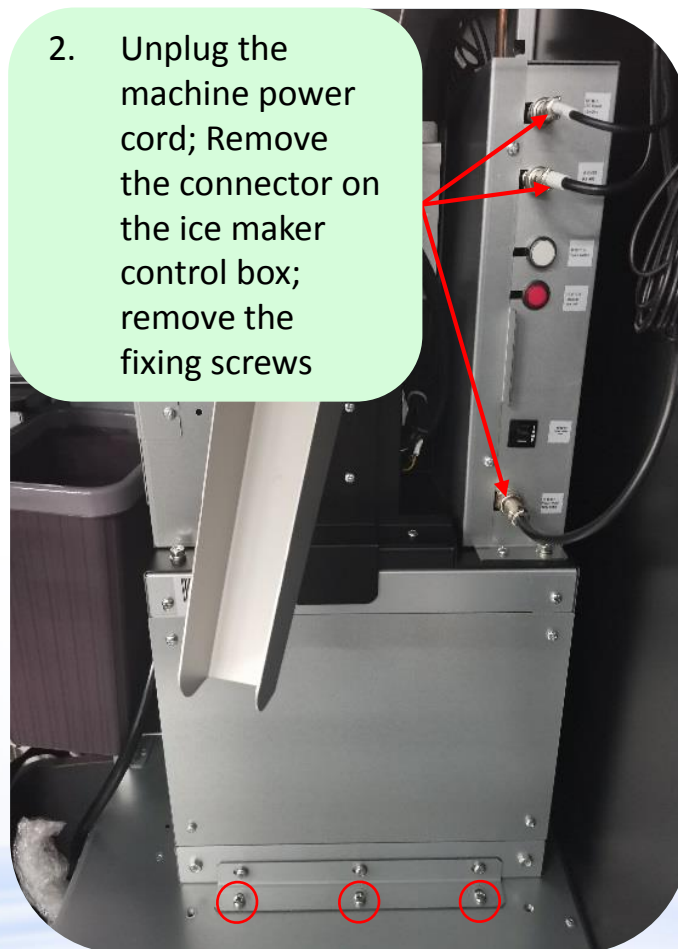


Access to machine management system, open machine door; empty the ice maker and its water tank, cut the tie. Unplug the valve control power connector and the silicone tube, remove the fixing screws, take out the drain valve for replacement

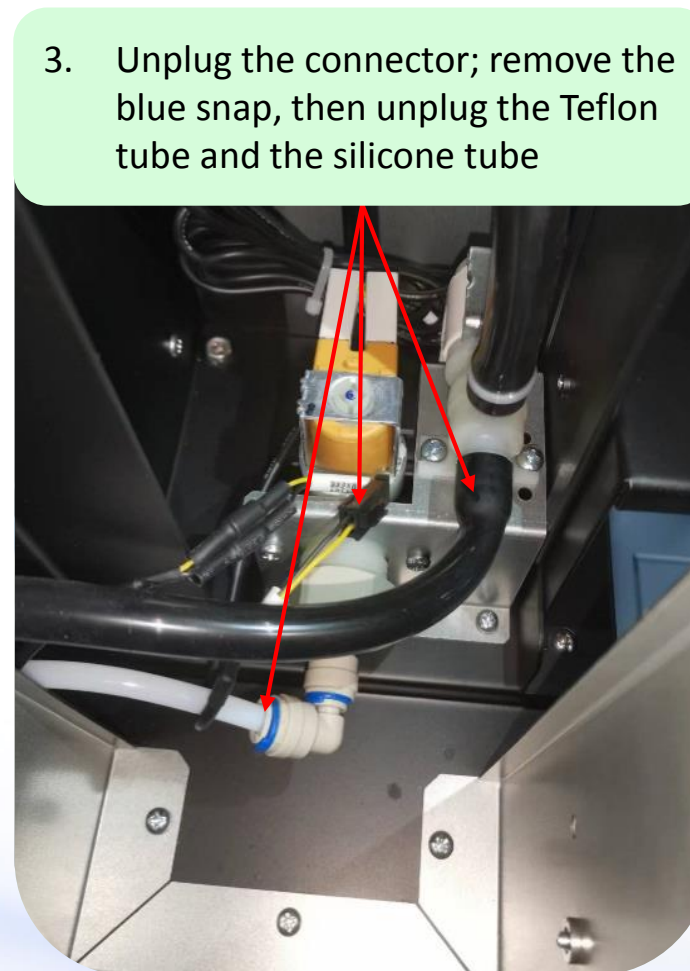
Temperature detection sensor replacement manual - 1



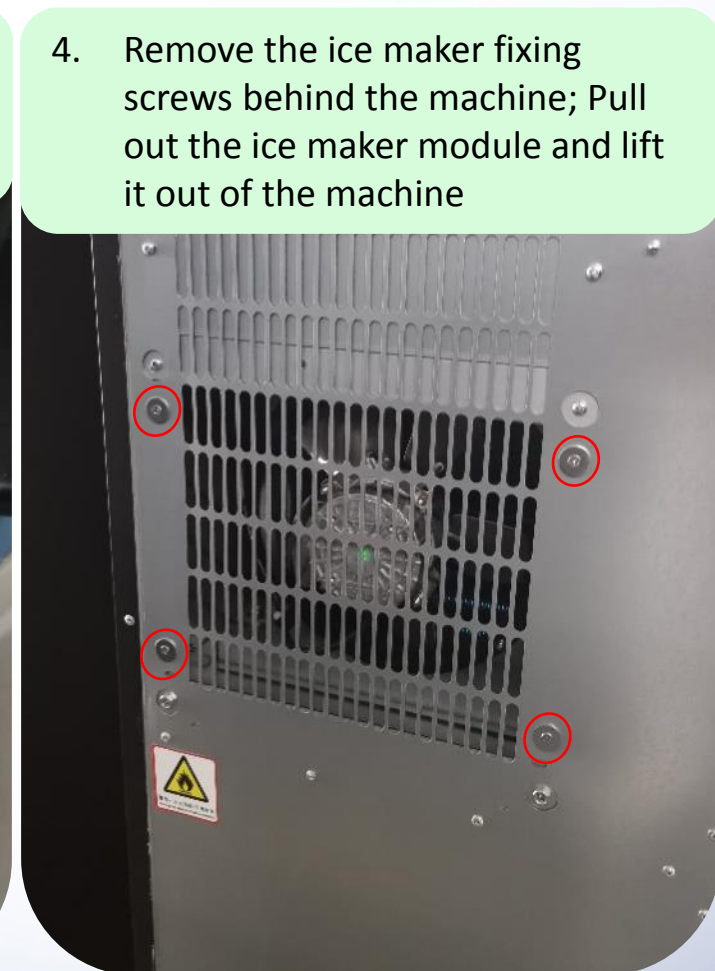
1. Access to machine management system, open machine door. Place a waste bucket at the end of the channel; press and hold the manual ice out button until the ice is drained.



2. Unplug the machine power cord; Remove the connector on the ice maker control box; remove the fixing screws



3. Unplug the connector; remove the blue snap, then unplug the Teflon tube and the silicone tube

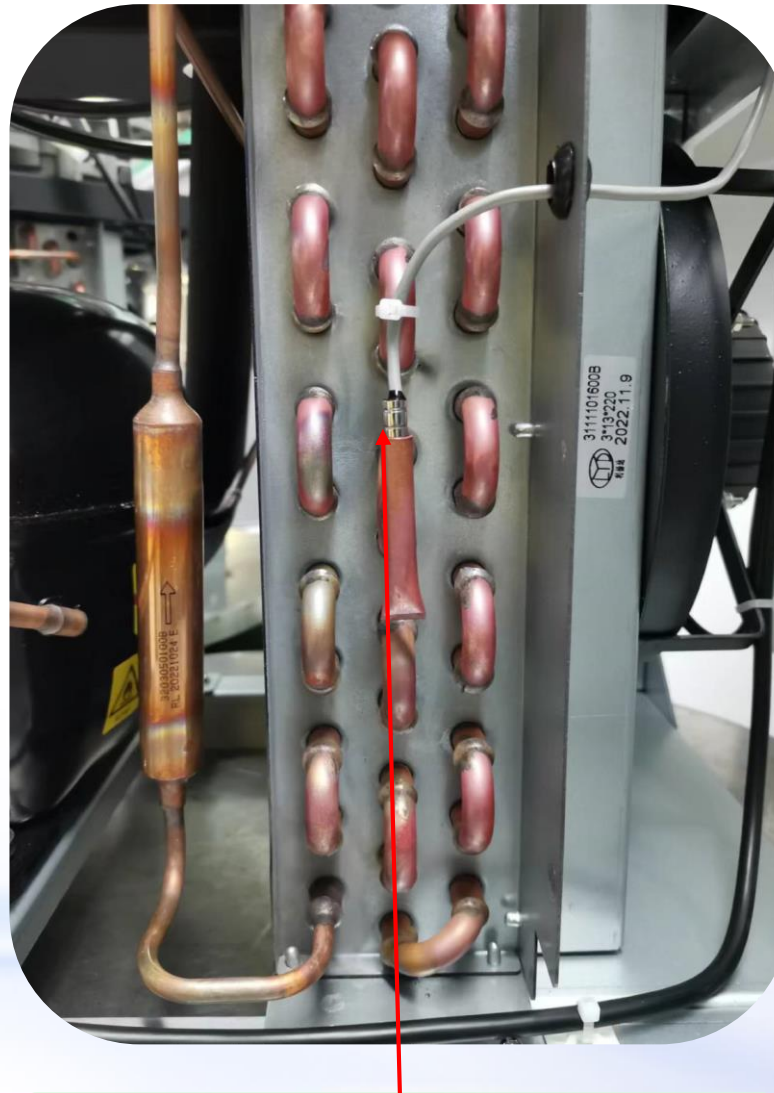


4. Remove the ice maker fixing screws behind the machine; Pull out the ice maker module and lift it out of the machine

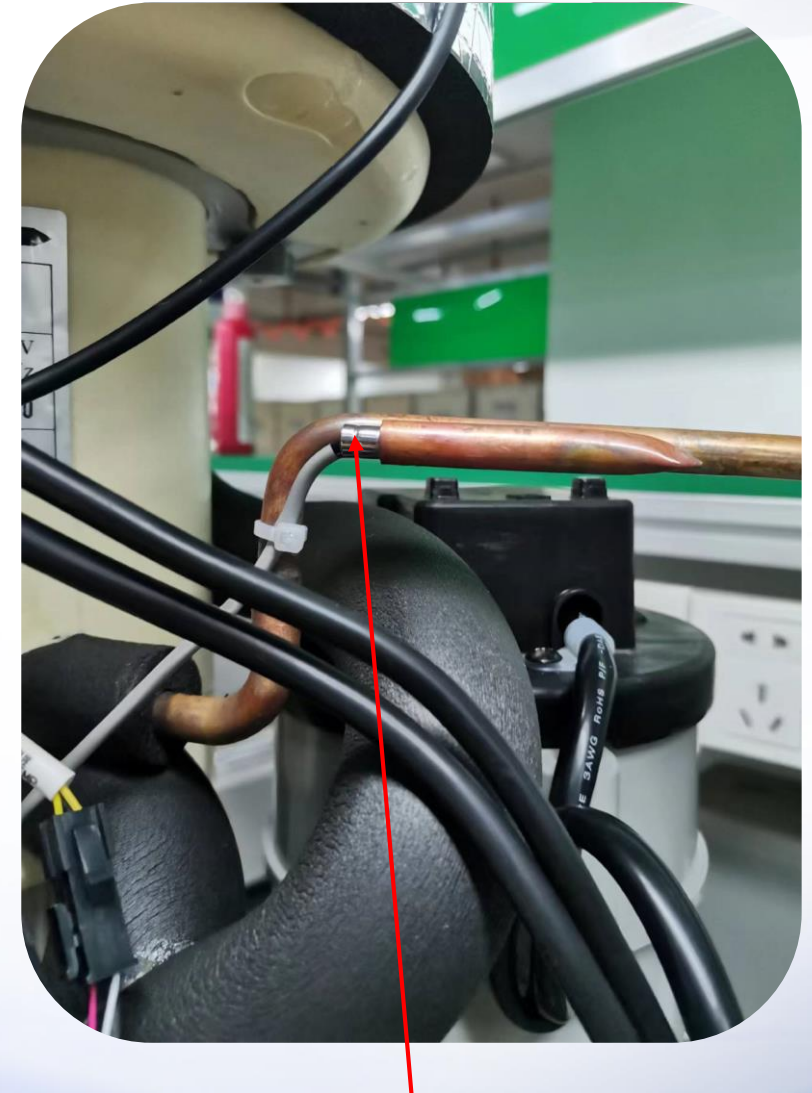
Temperature detection sensor replacement manual - 2



5. Remove the temperature insulation cover, cut the tie and unplug the connector



6. Cut the tie, take out the temperature for replacement

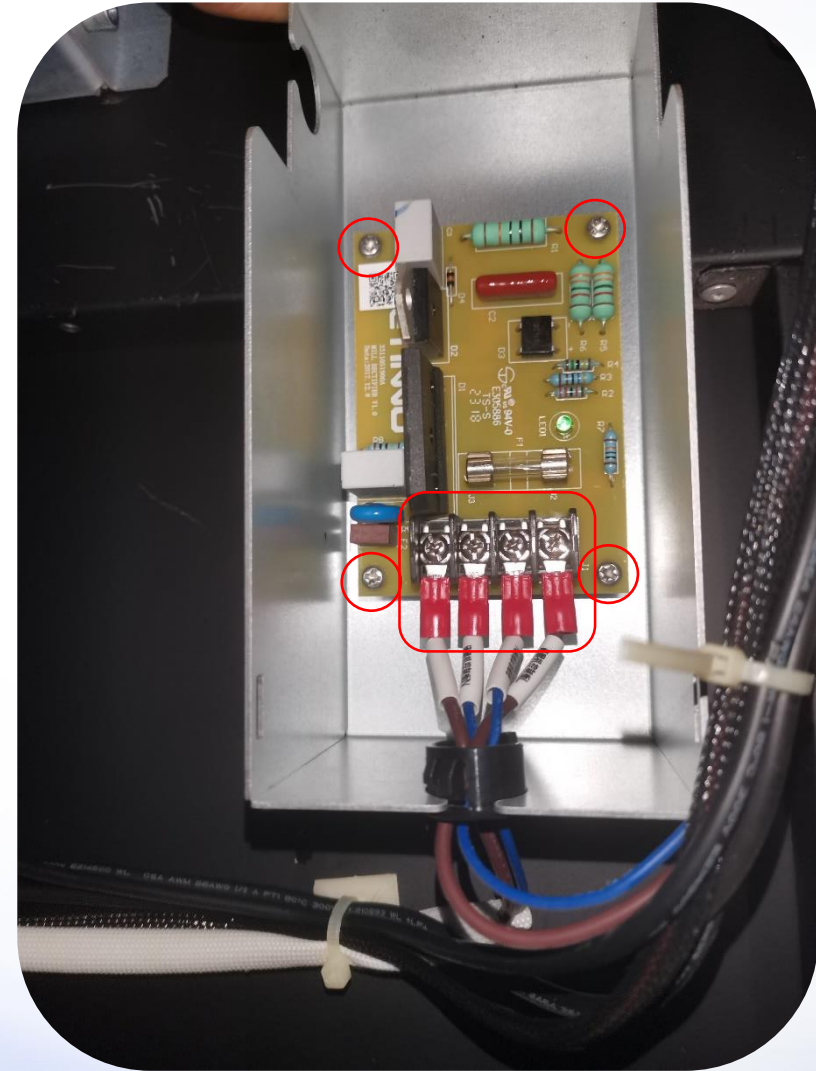


7. Cut the tie, take out the temperature for replacement

MILL RECTIFIER V1.0 replacement manual

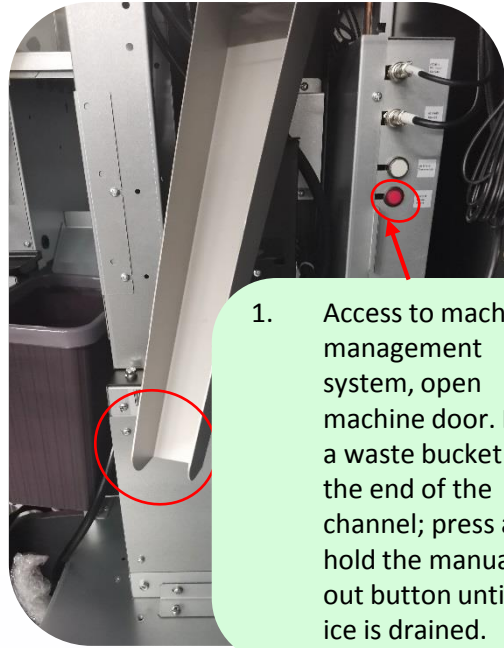


1. Access to machine management system, open machine door and turn off the machine. Find the fairing conversion box behind the grinder and remove the screws.

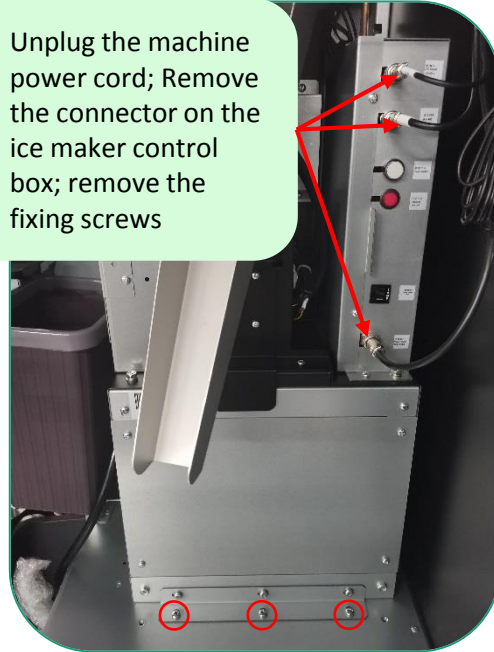


2. Take a picture, remove the connection cable and the screws. Now can replace the rectifier board

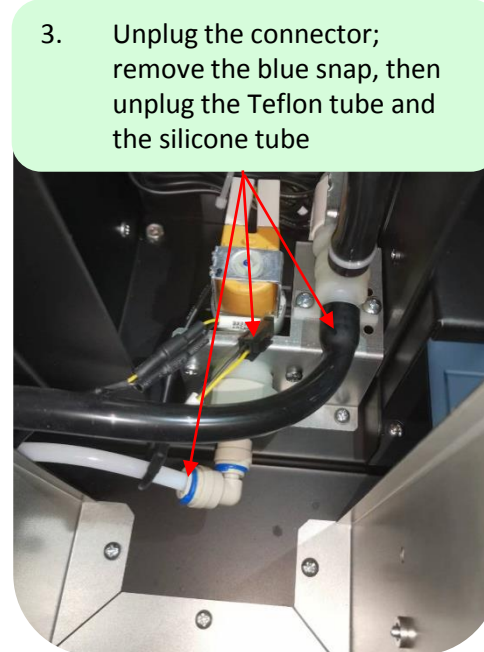
Ice storage bucket replacement manual



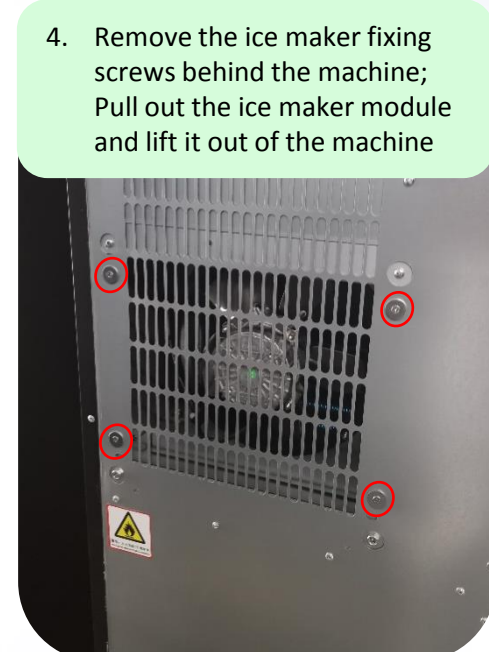
1. Access to machine management system, open machine door. Place a waste bucket at the end of the channel; press and hold the manual ice out button until the ice is drained.



2. Unplug the machine power cord; Remove the connector on the ice maker control box; remove the fixing screws



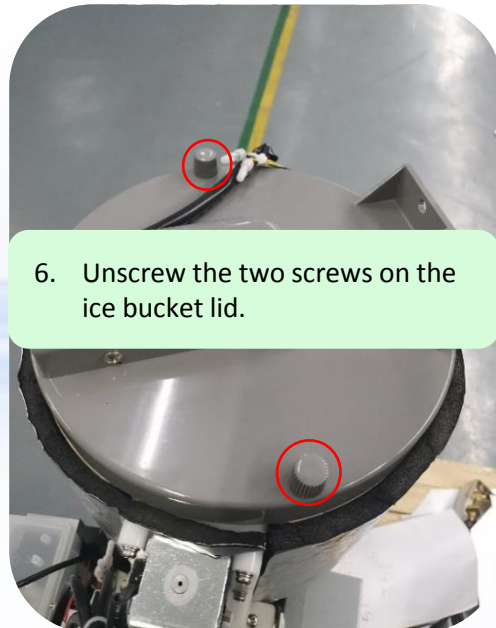
3. Unplug the connector; remove the blue snap, then unplug the Teflon tube and the silicone tube



4. Remove the ice maker fixing screws behind the machine; Pull out the ice maker module and lift it out of the machine



5. Remove the four screws from the solenoid and place the solenoid on the ice maker control box.



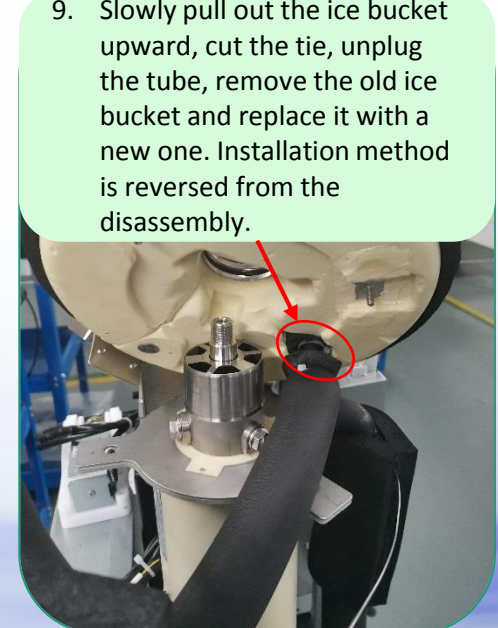
6. Unscrew the two screws on the ice bucket lid.



7. Remove the ice claw by rotating it counterclockwise.



8. Use a wrench to remove the 3 screws on the ice bucket.



9. Slowly pull out the ice bucket upward, cut the tie, unplug the tube, remove the old ice bucket and replace it with a new one. Installation method is reversed from the disassembly.