FelRelWel K-Type Heat Press Controller Box

FelRelWel K-Type Heat Press Control Box Instruction Manual

Model: K-Type Heat Press Controller Box

Brand: FelRelWel

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the FelRelWel K-Type Heat Press Control Box. This control box is designed as a replacement part for compatible 15x15 K-Type heat presses, offering precise temperature and time control for various heat transfer applications.



Image 1.1: Overview of the FelRelWel K-Type Heat Press Control Box, showing the main unit, power cord, and a spare fuse.

2. Safety Information

- Ensure the power supply meets the rated voltage of 110V-120V.
- Always use a reliable grounding wire for safety.
- The working power of the machine should be below 1400W.
- Disconnect power before performing any maintenance or installation.
- Keep hands clear of heating elements during operation.

3. Compatibility

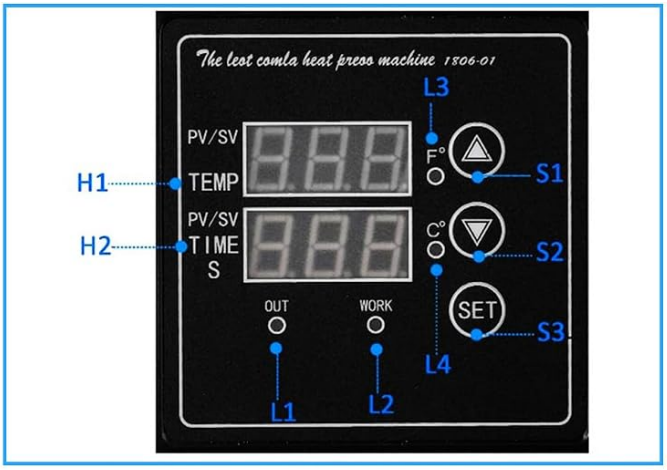
This control box is specifically designed for **K-Type Heat Press machines**. It is a replacement part only for 15x15 K-Type Heat Presses. Most compatible K-type controllers feature C (Celsius) and F (Fahrenheit) display marks on the control panel.

Important Reminder:

This control box is **not suitable** for Thermal Sensitive Heat Press machines. Thermal sensitive machines typically have a red reset switch. Using this control box with an incompatible heat press may lead to improper function, such as the heating plate not heating up or uncontrolled temperature increase, potentially damaging materials.



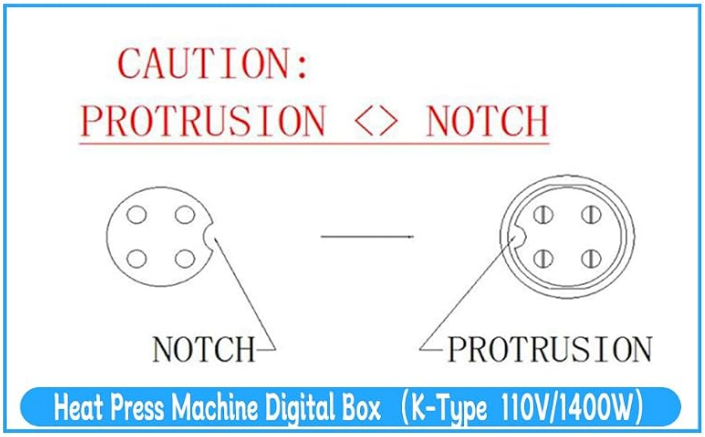
Image 3.1: Visual guide for identifying compatible and incompatible heat press machines based on control panel features.



L1 : Heating indicator light : OUT
L2 : Countdown LED : WORK
L3 : Celsius Operating Mode : ℉
L4 : Fahrenheit Working mode : °C
S1 : PLUS key
S2 : " MINUS " key (manual timer)
S3 : SET " key
H1 : display temperature measurement value (TEMP)
H2 : display time measurement value (TIME)

1 . Insert the three-core power cord into the socket , check whether the power supply meets the rated voltage of the machine 110V-120V , and the power supply should have a reliable grounding wire ; the working power of the machine is below 1400W .

2 . Insert the aviation connector equipped with the heat press machine or the baking cup machine into the corresponding socket of the thermostat .



3 . Turn on the switch , the thermostat will automatically heat up
4 . The timing should be set between 0 and 999 seconds , and the temperature range is between 32-482℉ (0-250°C) (the best working temperature control range is 320-392℉ , generally choose 356℉.
5 .Put in the object to be printed , close the handle and turn the adjustment screw for proper pressure .
Turn on the power switch , the dashboard will display thetemperature.
6 . Set the temperature and time correspondingly according to the table below , and obtain the corresponding specific temperature and time settings.

Press object	Initial temperature	Optimal temperature	Time
Mugs	0	356℉	60 sec
Tiles	0	356℉	40 sec
Metal board	0	356℉	40 sec
Plate	0	356℉	40 sec
T-shirt	0	356℉	See below

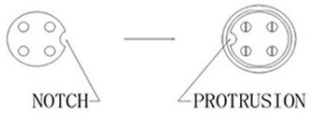
Image 3.2: Illustration of the 4-pin aviation plug interface, emphasizing the need for matching configuration with the heat press machine.

4. Product Overview

The FelRelWel K-Type Heat Press Control Box features a dual LED display for temperature and time, a touch-type control panel, and various connection ports.



CAUTION:
PROTRUSION <> NOTCH



Press object	Initial temperature	Optimal temperature	Time
Mugs	0	356℉	60 sec
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Plate	0	356℉	40 sec
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L1:Heating indicator light:OUT
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L3:Celsius Operating Mode :°F
L4:Fahrenheit Working mode :°C
S1:PLUS key
S2:" MINUS " key
(manual timer)
S3:SET " key
H1:Display temperature measurement value(TEMP)
H2:Display time measurement value(TIME)

1. Insert the three-core power cord into thesocket, check whether the power supply meets the rated voltage of the machine 110V-120V, and the power supply should have a reliable grounding wire; the working power of the machineis below 1400W.
2. Insert the aviation connector equipped with the heat press machine or the baking cup machine into the corresponding
socket of the thermostat.
3. Turn on the switch, the thermostat will automatically heat up.
4. The timing should be set between 0 and 999 seconds, and the temperature range is between 32-482°F (0-250°C) (the best working temperature control range is 320-392°F, generally choose 356°F).
5. Put in the object to be printed , close the handle and turn the adjustment screw for proper pressure. Turn on the power switch, the dashboard will display the temperature.
6. Set the temperature and time correspondingly according to the table below, and obtain the corresponding specific temperature and time settings.

Image 4.1: Exploded view showing the control box slide, aviation plugs, switch button, fuse, and internal wiring with ground wire connection.



Image 4.2: Diagram illustrating the functions of the control panel buttons and indicators, including Increase/Decrease Time/Temperature,

Function Setting (SET), Work Indicator, and Heating Indicator.

4.1. Components

- **Dual LED Display:** Shows current temperature (PV/SV TEMP) and time (PV/SV TIME S).
- **Control Buttons:**
  - ▲ (Up Arrow): Increase temperature/time.
  - ▼ (Down Arrow): Decrease temperature/time, or initiate/stop countdown.
  - **SET:** Function setting button for temperature unit, temperature, and time.
- **Indicator Lights:**
  - **C° / F°:** Indicates Celsius or Fahrenheit operating mode.
  - **OUT:** Heating indicator light.
  - **WORK:** Countdown LED indicator.
- **Power Switch:** Red rocker switch to turn the unit on/off.
- **Fuse:** Replaceable fuse for circuit protection.
- **Aviation Plugs:** Connectors for the heat press machine's heating plate and printing limit switch line.
- **Control Box Slide:** Mechanism to adjust the height of the control box.

5. Setup and Installation

1. **Power Connection:** Insert the three-core power cord into a grounded socket. Ensure the power supply meets 110V-120V and the machine's working power is below 1400W.
2. **Connect Heat Press:** Insert the aviation connector from your heat press machine (or baking cup machine) into the corresponding socket of the thermostat. Ensure the 4-pin configuration matches.
3. **Mounting (Optional):** If applicable, use the control box slide to adjust and secure the control box to your heat press frame.

6. Operating Instructions

6.1. Power On

Turn on the machine using the red power switch. The thermostat will automatically heat up to the last set temperature.

6.2. Switching Temperature Units (Celsius/Fahrenheit)



Image 6.1: Visual guide for switching between Celsius and Fahrenheit temperature units on the control panel.

1. Turn on the control box.
2. Press and hold the "SET" button for 5 seconds until a "beep" sound is heard.
3. Use the ▲ (up) and ▼ (down) keys to adjust between C (Celsius) and F (Fahrenheit).
4. Press and hold the "SET" button for 5 seconds again to confirm the setting. The corresponding C° or F° indicator light on the instrument panel will illuminate.

6.3. Setting Heating Temperature and Time



Image 6.2: Visual guide for setting the heating temperature and time values on the control panel.

1. Press the "SET" button once. The display will show "SP" (Set Point) for temperature.
2. Use the ▲ (up) and ▼ (down) keys to adjust the desired temperature. The adjustable temperature range is 33°F to 482°F (0°C to 250°C). The optimal working temperature range is generally 320°F to 392°F (160°C to 200°C), with 356°F (180°C) being a common setting.
3. Press the "SET" button again. The display will show the time setting.
4. Use the ▲ (up) and ▼ (down) keys to adjust the desired heating time. The adjustable time range is 0 to 999 seconds.
5. Press the "SET" button a third time to return to the standby heating state.
6. **Countdown Function:** If your heat press has a countdown function, press the▼ (down) button to automatically start the countdown. Press the ▼ (down) button again to stop the countdown.

6.4. Recommended Settings for Common Objects

The following table provides general guidelines for initial temperature and time settings. Actual settings may vary based

on material and transfer paper specifications.

Press Object	Initial Temperature	Optimal Temperature	Time
Mugs	0	356°F	60 sec
Tiles	0	356°F	40 sec
Metal board	0	356°F	40 sec
Plate	0	356°F	40 sec
T-shirt	0	356°F	See below

Note: For T-shirts, specific time settings depend on the material and transfer type. Always refer to the transfer material manufacturer's recommendations.

7. Maintenance

7.1. Fuse Replacement

The control box is equipped with a replaceable fuse (30mm*6mm specification) for circuit protection. A spare fuse is included with the control box.

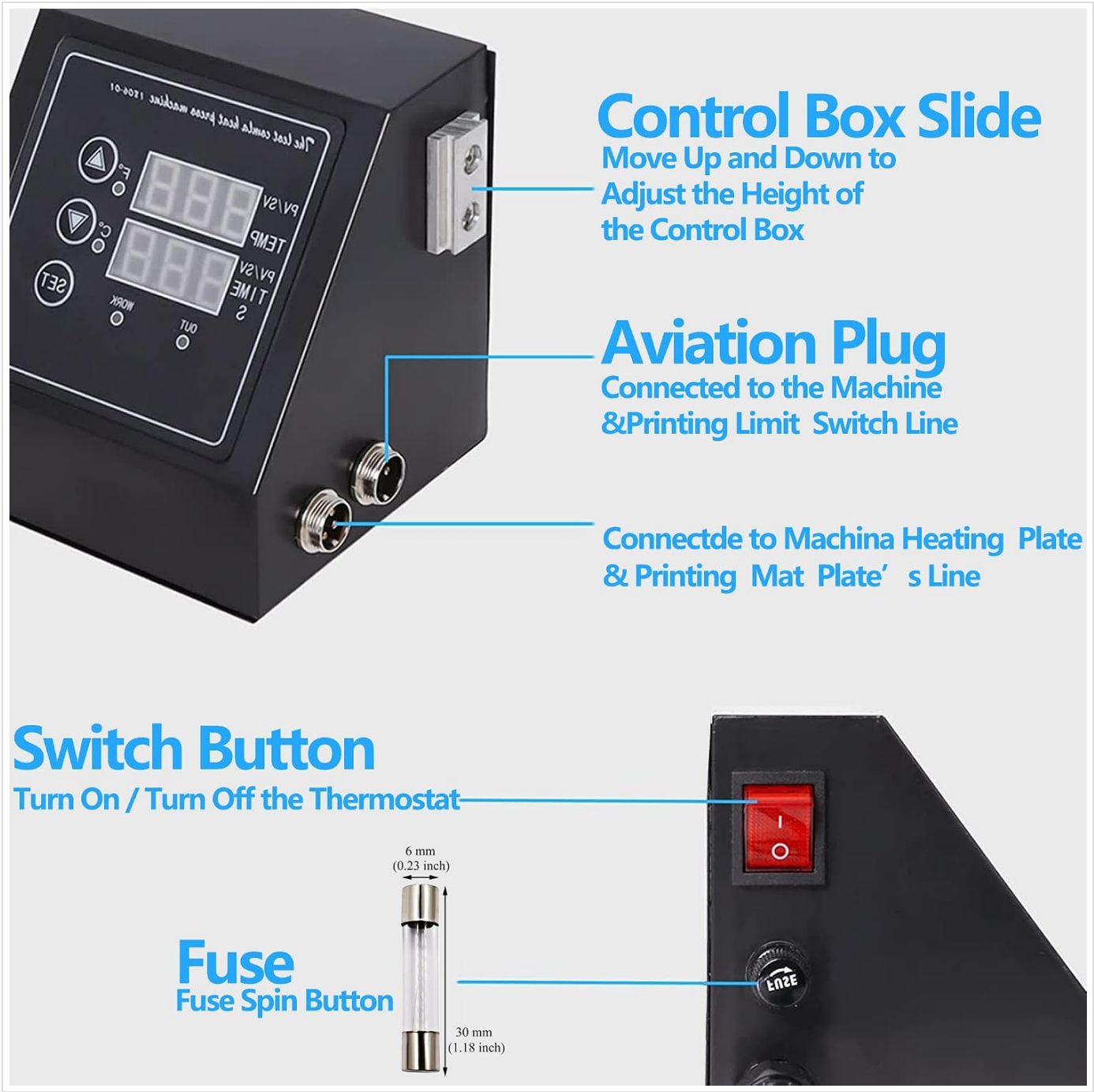


Image 7.1: Diagram showing the fuse installation location and the machine switch button.

1. **Disconnect Power:** Ensure the control box is turned off and unplugged from the power outlet.
2. **Locate Fuse:** The fuse is typically located near the power input or switch, often with a screw-in cap.
3. **Remove Old Fuse:** Unscrew the fuse cap and carefully remove the old fuse.
4. **Insert New Fuse:** Place the new fuse (30mm*6mm) into the cap and screw it back into place.
5. **Test:** Reconnect power and turn on the control box to verify functionality.

Caution:

Always replace the fuse with one of the same type and rating to prevent damage to the unit or fire hazards.

8. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Control box does not power on.	No power supply, faulty power cord, blown fuse.	Check power outlet. Inspect power cord. Replace fuse (refer to Section 7.1).
Heating plate does not heat up or heats improperly.	Incompatible heat press, loose aviation plug connection, faulty heating element (on heat press).	Verify heat press compatibility (K-Type only). Ensure aviation plug is securely connected. If issues persist, the heating element of the heat press may be faulty.
Temperature display is inaccurate or unstable.	Loose thermocouple connection, environmental factors.	Check all connections. Ensure the control box is not exposed to extreme temperatures or drafts.
Cannot switch between Celsius and Fahrenheit.	Incorrect button sequence.	Follow the instructions in Section 6.2 precisely. Ensure "SET" button is held for 5 seconds.
Countdown function not working.	Heat press does not support countdown, incorrect button press.	Not all heat presses are equipped with a countdown switch interface. Ensure you are pressing the ▼ (down) button after setting time.

If problems persist after attempting these solutions, please contact customer support.

9. Specifications

- **Model:** K-Type Heat Press Controller Box
- **Voltage:** 110 Volts
- **Frequency:** 60Hz
- **Power:** 1400W
- **Adjustable Temperature Range:** 33°F to 482°F (0°C to 250°C)
- **Adjustable Time Range:** 0 to 999 seconds
- **Material:** ABS, Iron
- **Package Dimensions:** 6.69 x 5.59 x 5.51 inches
- **Item Weight:** 1.61 pounds



Image 9.1: Diagram showing the physical dimensions and key technical specifications of the control box.

10. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact the manufacturer, FelRelWel, directly through their official channels. Please have your product model number (K-Type Heat Press Controller Box) and purchase details available when contacting support.

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