



Owners Manual

GEO *Knight* & CO, INC
EST. 1885



INTRODUCTION

Welcome to Geo Knight's Maxi•Press

General Description:

The Maxi-Press is a multipurpose large format manual heat transfer press intended for the imprinting of a vast range of different materials. The Maxi-Press provides an oversized platen, production oriented press without the price tag of a similar sized air operated heat press.

Ideal applications:

- *small and large cut textiles
- *soccer jerseys - hockey uniforms
- *sport panels
- *flags and banners
- *floor mats and carpet material
- *mouse and wrist pads

Geo KNIGHT & Co - LIMITED WARRANTY

Geo Knight & Co warrants that its heat transfer machines are free from defects in both material and workmanship for one (1) year from the date of invoice to the buyer. If any parts or workmanship are found to be defective in manufacture, Geo Knight & Co will repair or replace the defective parts or workmanship. This limited one (1) year warranty covers all parts and labor to repair the defects, except when damage results from accident, alteration, misuse or abuse, or when machine has been improperly installed, or modified in any way. If a machine becomes defective during the limited warranty period of one year, Geo Knight & Co reserves the right to recall the defective machine to the factory for repairs. A RETURN AUTHORIZATION must be granted by Geo Knight & Co prior to its return. If a machine covered by the one year limited warranty must be returned to the factory for repairs, Geo Knight & Co shall make every effort to repair buyer's machine. However, Geo Knight & Co reserves the exclusive right to determine whether to repair or replace a defective machine. If Geo Knight & Co authorizes a replacement machine, the warranty of the replacement machine shall expire on the anniversary date of the original machine's invoice to the buyer.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF: SELLER DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND BUYER AGREES THAT THE GOODS ARE SOLD "AS IS".

REPLACEMENT PARTS

REPLACEMENT PARTS are sold to the customer with a thirty (30) day warranty (beginning at invoice date). Since Geo Knight & Co (the "COMPANY") has no guarantee that parts have been correctly installed by the Customer or that other deteriorating components might also affect the life & performance of replaced parts, there is no liability assumed by the COMPANY beyond the thirty (30) day warranty period. Those who choose to repair their own machine do so at their own risk! Geo Knight & Co is not liable for damages due to or as a result of repair work done by the Customer. REPLACEMENT ASSEMBLIES are sold to the Customer with a sixty (60) day warranty (beginning at invoice date). The COMPANY supplies a complete subassembly and is responsible for its performance for sixty days.

REPAIR WARRANTY

REPAIR WARRANTY REPAIR WORK performed by Geo Knight & Co is warranted for ninety (90) days from the date of invoice and covers ONLY the specific area of concern identified by either the Customer or Geo Knight & Co.

EXCHANGE WARRANTY

EXCHANGE WARRANTY implies that a machine is within the one (1) year Limited Warranty. Any work performed or parts exchanged is done at No Charge to the Customer. Geo Knight & Co will pay for return freight ONLY via UPS Ground Service or LTD Trucking Charges. Premium freight service is the responsibility of and at the discretion of the Customer. Exchange Warranty of parts & repair is warranted for 30 (thirty) days past the warranty date of the ORIGINAL machine.

Features:

- *Multi-hi wattage fire rod heaters
- *Ultra thick heater block assembly
- *Solid steel pressure bars
- *Heavy steel frame structures
- *Even applied pressure
- *Self-leveling heater block assembly
- *Digital temperature and timer control
- *Heavy duty locking casters for easy movability

Electrical Specifications:

*Voltage	208/220/230	
*Watts	32"x42" - 9,000 watts	44"x64" - 18,000 watts
*Amps	32"x42" - 41 amps	44"x64" - 82 amps
*Phase	32"x42" - Single Phase	44"x64" - Single Phase
*Cycles	50/60	

Dimensions:

*Foot print	48" x 72"
*Opened height	76"
*Closed height	50"



CHECK LIST

After you have carefully unpacked your Maxi-Press, please review the following check list before continuing.

Machine Check List

- *Lower control console
- *Heater block assembly
- *Lower platen assembly
- *Stand legs and casters
- *Warranty card



In the event that any of the following areas appear to be damaged or missing, please contact your distributor or authorized dealer for service.

Alarms

There are 10 different alarms available to choose from. These alarms are sounded at the end of the timing cycle, as well as if the Drop Sense feature is enabled.

Use the arrow keys to change the values or to turn the alarm off. Please note the different alarms below.



- denotes a short beep.
- _ denotes a longer beep.
- ~ denotes infinite loop.

<u>Alarm #</u>	<u>Alarm Pattern</u>
Off	No alarm
01	••• _
02	••• _ ~
03	•• _
04	•• _ ~
05	•••
06	••• ~
07	_ ~
08	_
09	•
10	• (shorter)

Drop Sense

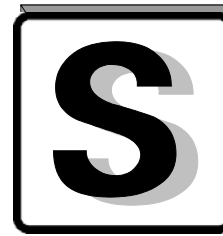
A temperature alarm is available for warning the user of out-of-range temperature conditions. The user can set this menu item to sound an alarm if the heat platen drops below the Set Point temperature by the amount indicated. This can be helpful when pressing substrates that absorb an unusually large amount of heat, causing the platen to fall in temperature quickly. If the results of the transfer begin to deteriorate, the Drop Sense feature can help the user avoid this.

Use the arrow keys to set the degrees or to turn this feature off. If the Current temperature drops below the Set Point by this amount or more, an alarm will sound. The default value is OFF.



Beep

Normally, all buttons on the keypad beep when pressed. This can be turned off, so all button keypresses are silent. Use the arrow keys to turn this feature On or Off.

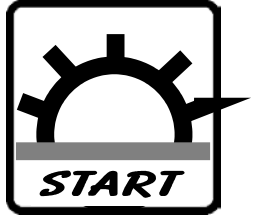


SETUP

Maxi-Press set up and power requirements

The Maxi-Press is equipped with a sturdy machine stand. The legs of the stand have locking casters. In order to improve operation and reduce the risk of accidental injury, please review the following safety set up list:

- Step 1: Position the machine in a area where unauthorized personnel can not accidentally make contact with heated surfaces.
- Step 2: Locate the machine in a well vented area or supply external exhaust to reduce health risks caused by various operations and transfer applications.
- Step 3: Locate the machine on a level solid floor. Once positioned, lock the casters in place.
- Step 4: Supply the proper rated outlet and circuit breaker to the machine. Check the amperage on the ID tag on the maxi-press. The standard Maxi-Press line requires *single* phase 208/220/240 volts.
- Step 5: Only have trained authorized persons operate and service the machine.



START-UP

Turning the machine on:

Once the machine has been properly located and secure, you are ready to power up your Maxi-Press. Please refer to the *Setup* section of this manual for location and securing instruction. Remove the shipping hardware from the (2) rear linkage assemblies. Remove all shrink wrap and other packaging material from the machine. The Maxi-Press is equipped with compression springs to assist the operator in lifting the heater block assembly. When lifting the heater block assembly, the operator needs to firmly grasp the handles and slowly lift the handle. The compression springs will take over and the operator needs to stay grasping the handle to reduce the risk of a sudden lift effect.



Caution: The Maxi-Press is equipped with compression springs that assist in lifting the heater block. The operator must be able to grasp the handle and control the lifting effect of these compression springs.

With the heater block in the raised position, turn the power switch on.

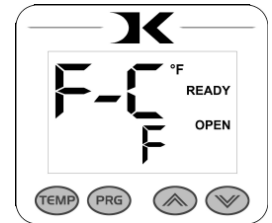
User Options Menu

The user options menu is a set of features and calibration options that are programmable and adjustable by the user. It consists of a set of menu items that can be scrolled through. Each menu item is a feature whose values can be viewed and /or changed. To enter the user options menu:

- From the default operating mode, press the TEMP & PRG keys simultaneously.
- If the keys are not pressed exactly at the same time, you may enter the temperature edit mode, or the presets mode. Exit either of those modes and try again.
- To cycle from one menu item to the next, press PRG.

Fahrenheit / Celsius

The Current, Set Point, and Preset temperature values can be displayed in Fahrenheit or Celsius. To change the value to F or C, use the arrow keys. Press PRG to move to the next menu item.



Timer Counter

The timer displays as factory default Minutes:Seconds. This can be changed to Hours:Minutes. To change to value to HR (hours:mins) or MIN (mins:secs), use the arrow keys. Press PRG to move to the next menu item.



Recorded Pressings

The digital control records the number of pressing cycles completed. This can be very helpful when counting the number of full pressings that have been performed. The value will scroll from left to right. A “-” sign will separate the beginning and end of the number. To reset the count to Zero, press an arrow key. Press PRG to move to the next menu item.

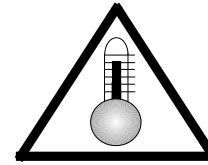


PROGRAMMABLE PRESETS

This feature is ideal for recalling previously saved settings from various different applications. The presets are extremely easy to use, and bring a powerful level of accuracy to heat transfer pressing.

This allows the user to quickly change from one application to another with extreme accuracy. Over time, the user will save many different settings in the presets based on the best results for every application. When those presets are selected, the user is immediately returned to the proper settings, without time consuming experimentation and risk of unsuccessful applications.

- From the default operating mode, to select a preset, press PRG.
- Use the Up & Down arrow keys to select a preset (00 - 70).
- Press PRG to update the current settings and return to the default operating mode.
- To edit or add a new preset, select the preset to be added/updated.
- Press TEMP to cycle through Temperature & Time values (Skip "PRS" value - not applicable for this machine).
- The editable value will flash indicating it may be changed.
- Use the Up & Down arrow keys to change values. Pressing Up & Down together when editing the temperature value resets it to 350, and 00 for time.
- After setting the pressure value, pressing PRG again will bring the user back to the preset selection screen.
- The user may press PRG to update the current settings and return to the default operating mode, or select another preset for editing/adding.



TEMPERATURE

In the default operating mode of the controller, the displayed temperature is the **Current** temperature. This is the actual temperature of the heat platen surface. Please note that the operating range of the controller is from 150°F to 550°F (65°C to 288°C). During the first heat up cycle of the press, the controller will display 150°F (65°C) until the heat platen temperature rises above that temperature.

The **Set Point** temperature is the temperature the operator sets the press for. This is the value the press will regulate the **Current** temperature based on. The set point temperature may be changed whenever necessary:

- When in the default operating mode, press the TEMP button.
- The Current temperature will be replaced by the *blinking* Set Point temperature.
- Use the Up & Down arrow keys to change the Set Point temperature.
- Hold the Up or Down arrow key down to increment the values quickly. After a brief pause, the values will accelerate.
- Press the Up & Down arrow keys together to set the temperature to 350.
- When finished setting the temperature, press the TEMP button to return to the default operating mode.



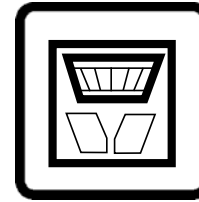
- The control will regulate the heat platen temperature based on the set point temperature. When the temperature falls below the Set Point, the "HEATING" indicator will appear.
- When the temperature reaches the Set Point, the "HEATING" indicator will disappear and the "READY" indicator will appear.
- If the Set Point temperature is set to a temperature below the Current temperature, the press will wait to cool down to that Set Point. At that time, neither the "READY" or "HEATING" indicators will appear.



TIME

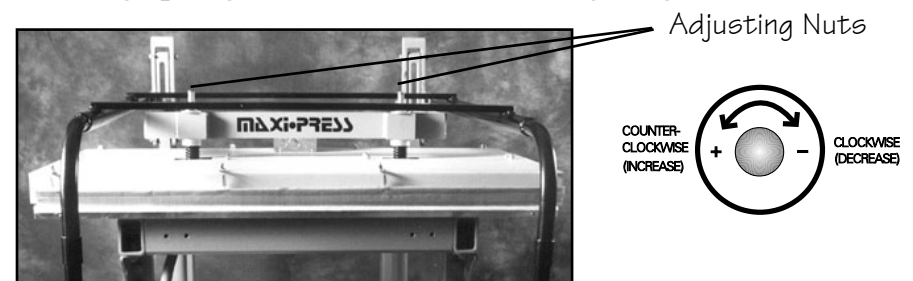
The time setting is always editable in the default operating mode of the controller. The left two digits of the time display are minutes. The right two digits are seconds. This can be changed to Hours/Minutes in the User Options Menu.

- Use the Up & Down arrow keys to change the time.
- Hold the Up or Down arrow key down to increment the values quickly. After a brief pause, the values will accelerate.
- Press the Up & Down arrow keys together to clear the setting to 00:00
- When the press is closed, the timing cycle starts. The “TIMING” indicator will appear.
- When the timing cycle is finished, the “DONE” indicator will appear.
- Depending on the timer alarm chosen, the alarm may continue to sound at the end of the timing cycle until the press is opened.
- When the press is opened up, the “OPEN” indicator will appear.



PRESSURE

The pressure on the Maxi-Press is generated by 2 heavy-duty linkage assemblies. The pressure can be adjusted by turning the pressure adjusting nuts located above the heater block leveling springs. Refer to the following diagram.



To increase pressure:

Turn both the left and right adjusting nuts in the counter-clockwise direction. Make sure both are turned at even intervals.

To de-increase pressure:

Turn both the left and right adjusting nuts in the clockwise direction. Make sure both are turned at even intervals.



Note: You will need a 3/4" size open end wrench or an adjustable wrench to change the pressure.



Caution: Make pressure adjustments while the heater block is in the up position. Do not adjust pressure nuts to a position that is close to the end of the heater block support threaded rod assembly.