

Model 294A / 294JS Manual Swinger

Operating Instructions

SECTION I

SETTING UP

Geo Knight & Co's Model 294 MANUAL SWINGER was designed to operate at 15 amps on 110 volts AC current. The machine should be plugged into a separate circuit of its own if possible, especially if two or more presses are to be used at once.

IMPORTANT: The three-pronged plug on the cordset supplied is intended to be used in a grounded receptacle. DO NOT attempt to modify or adapt the plug to an inappropriate receptacle. ALWAYS unplug the machine at the wall outlet.

MODEL 294 features a "swing-away" heat platen. It has been factory set to swing out to the RIGHT. If you would prefer to have it swing out to the LEFT please refer to SECTION II - DIRECTION OF SWING. When locating the machine, allow enough clear space to swing the platen safely. Also allow sufficient space for accessories, layout, etc. Provide a well-lighted, sturdy work surface to which the machine can be permanently affixed. The bolts used in the shipping pallet may be used to secure machine to table (if of a sufficient length for your table). Good ventilation in the work area is necessary for the operator's well-being, but cold drafts in the immediate vicinity of the machine can overwork its heat elements. For safety, the heat transfer press should always be located out of reach of children and customers.

SECTION II

BASIC OPERATION

The FRONT PANEL of the machine houses the following components: ON/OFF SWITCH, "HEATING" & "AT HEAT" LIGHTS, DIGITAL TIMER. When the machine is turned "ON" the RED "Heating" light will illuminate and remain on until the desired temperature is reached.

MODEL 294 features a unique TEMPERATURE CONTROL mounting design. This system has a THERMOCOUPLE SENSING DEVICE secured to the HEAT PLATEN which monitors surface temperatures and signals the controller to make any adjustments. Because the CONTROLLER is mounted on the heat platen COVER, there is no stress applied to this thermocouple coil as the press is raised and lowered. This feature dramatically extends the life of the temperature control unit.

Once the desired temperature setting is reached the GREEN "At Heat" light will illuminate and the RED "Heating" Light will go out. This sequence will continue as the press cycles through during heat transfer operations as created heat is used.

The DIGITAL TIMER is mounted on the front panel and held into place with a plastic bracket. To set the timer simply press the desired SECONDS (SEC) and/or MINUTES (MIN). Once the settings are in place it is not necessary to adjust until a new dwell time is required. The timer is activated by pushing the START button on the face of the timer. The digital display will begin to count DOWN to zero and then sound a beeping signal indicating that the dwell time has elapsed. To RE-SET or CLEAR the timer to zero, press both the SEC and MIN buttons simultaneously.

IMPORTANT: Timer button should be activated as soon as the heat platen is locked into position.

BATTERY REPLACEMENT - DIGITAL TIMER is held in place with a MOUNTING BRACKET that is secured to the top casting with tabs that fit into clip holes drilled into the top casting. To remove this bracket, pinch from both sides and lift straight up. Timer will then be freed to remove the back panel and replace the battery.

To apply PRESSURE, swing the upper platen assembly back to the center position by pulling on the handle until the STOP BRACKET aligns the Top and Bottom Platens. Grasp the handle with both hands, pull forward and down until the heat platen is firmly clamped in place.

IMPORTANT: Always return HEAT PLATEN to center position after use, both for safety and to reduce the amount of heat loss.

The PRESSURE ADJUSTMENT MECHANISM is located at the back of the press coming directly off the top support channel. This WHEEL controls the height of the platen and will determine the amount of applied pressure on the item to be imprinted. Turn the wheel clockwise to raise heat platen and reduce pressure, counter-clockwise to lower heat platen and increase pressure. This height will not vary as the press is operated. Adjustments can only be made by turning the wheel. Proper pressure adjustment can be determined only by careful testing of garments and transfers. Check your SILICON BASE PAD regularly to be sure it is free of cuts or gouges that could cause uneven pressure and unsuccessful applications.

SETTINGS

Shop conditions at each location, power fluctuations, age and condition of your machine, fiber blends in garments being used and transfer materials themselves make it impossible to provide an infallible set of time and temperature settings. In general, start with the transfer manufacturer's guidelines. If release or adhesion are unsatisfactory, vary the time setting first, then try other temperature settings. Cover sheets (brown silicon paper, high gloss paper or teflon sheets) may be used for "resealing" to improve adhesion. Remember that the extra thickness could cause an insulating effect, requiring extra sealing time.

DIRECTION OF SWING - MODEL 294 is set at the factory to swing out to the operator's right. The side to which the press swings out can be changed by loosening the CLAMP STOP BRACKET with an allen-wrench and rotating the clamp to the opposite side of the STOP POST.

OPTIONAL BOTTOM TABLE - The 16" x 20" BOTTOM TABLE can be interchanged with standard and custom sized tables. To remove table turn wheel located under the tubular base support to the left until it comes completely loose. Lift table straight up so that locating pin comes free of base pin hole. When relocating table, be certain to align pin with the proper hole.

SECTION III *MAINTENANCE*

The SILICONE BASE PAD is critical to successful heat transfers. Check it regularly for gouges, cuts, low spots, etc and replace it when necessary. Always keep the pad and the surface of the top platen clean.

The surface of the HEAT PLATEN is coated with teflon and should be protected from anything which might scratch it (such as zippers, snaps, etc). Occasionally plastisol or other melted substances will get on the platen and should be carefully wiped off, while still hot, with a cloth. TEFLON SPRAY CLEANER can be purchased from Geo Knight & Co to assist in this maintenance procedure. DO NOT USE abrasive cleaners or scrapers to clean the platen. Also periodically check the power cord for worn insulation and damaged plugs.

LUBRICATION: The REAR PIVOTING POST assembly should be greased four (4) times a year (or as needed) by injecting grease into the fitting at the back. Also grease the two (2) PRESSURE CLAMP RODS and RIVETS every 2 to 3 months or as needed.

IF THE MACHINE WON'T WORK:

First check the power at the outlet, then the power cord and then the machine fuse. If the machine still fails to operate call:

GEO KNIGHT & CO CUSTOMER SERVICE
(800) 525-6766

SECTION IV *HOW TO PROPERLY APPLY HEAT TRANSFERS*

TO ASSURE EVEN PRESSURE AND A SMOOTH RESULT, GARMENTS MUST BE CAREFULLY PLACED ON THE BASE PAD OF YOUR PRESS.

T-Shirts should be smoothed to eliminate wrinkles, front and back. MODEL 294 is designed with a raised base to allow the garment to be pulled over the base table thereby isolating the one side of the shirt to be imprinted. This is especially important if designs are to be applied to both sides of a shirt or if the fabric is a mesh or of light enough material that there is a chance of ink or adhesive bleed-through.

Jackets and other heavy or complicated garments are handled similarly to T-shirts. Avoid pressing zippers, snaps, buttons, etc. Since these can mar a design and leave permanent depressions in the base pad of the press. Minor irregularities in the fabric thickness, seams and trim can be compensated for within the silicon rubber pad. If they present a problem then they must be removed from the imprint area and draped off to the side. Always test unusual fabrics, trims and linings for heat resistance.

CAREFUL ALIGNMENT OF THE TRANSFER ON THE GARMENT BEFORE PRESSING IS IMPORTANT SINCE MOST TRANSFERS ARE NOT REMOVABLE.

Use as a guide the bottoms of the seams, where the sleeves meet the body of the shirt. Usually a full-size transfer will be 1/3 above, 2/3 below this line. Heart size designs usually center on this line as do body stripes and die cut lettering. For X-Large shirts this guideline is higher, for smaller shirts, lower.

The lowest point on the collar provides a vertical center reference. Vertical distance from the two sleeve/seam points also helps center a design. Be sure to center the image by looking through the carrier paper, not just by the edges of the paper.

These are only guidelines and they can be modified for unusual garments, special placement of designs, custom transfers, etc. In some cases it is beneficial to trim the transfers to within 1/4" of the actual print.

DIFFERENT HEAT TRANSFER MATERIALS HAVE DIFFERENT APPLICATION PROCEDURES!

Fabric variables such as texture, thickness, sizing, dyes, shrinkage, heat sensitivity, and end use of the garment all effect the application time, temperature and pressure, and even the suitability of the transfer. **IT IS THE USERS' RESPONSIBILITY TO CHOOSE THE CORRECT TRANSFER PRODUCT AND USE IT PROPERLY.** Technical assistance is available through Geo Knight & Co's Customer Service Department.

LIMITED WARRANTY

Geo Knight & Co warrants that its heat transfer machines are free from defects in both material and workmanship 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"

MODEL 294 - PARTS LIST

MACHINE BASE:

Leg Casting (Front)
Leg Casting (Rear)
½-20 x 1 Socket Screw (8)
2" x 8" x ¼ Steel Tubing Base
Base Table Casting
"C" Clip
Wheel Stud Casting
½ SAE Washer
Silicone Rubber Pad - 16" x 20"

HEAT PLATEN ASSEMBLY:

16" x 20" Heater Block Casting
Heater Block Cover
Access Panel
10-32 x 3/8 Truss Head Screws (8)
Stem Thermometer
6-32 x ½ Flat Head Screw
3/8 SM Plug
HB 2" Insulation
RS Bulb Clamp
HB Mounting Plate - ½ x 3½ x 7½ CR
¼-20 x 1¼ Allen Screw (4)
Robert Shaw Sheet Metal Mount
Wire Harness

TOP CHANNEL ASSEMBLY:

Power Cord - 9 ft
Fuse Holder
Fuse - 15 amp
4-Place Buss Bar
"Heating" Pilot Light - Red
"At Heat" Pilot Light - Green
#12 High Temperature Wire - 6 ft
Toggle Switch
Robert Shaw Heat Control
Temp Control Knob
Carr Lane Clamp - CL 300PC (2)
Pin (6)
Clamp Mounting Bolt - ½-13 x 1½ Socket (2)
5/16-18 x 1 Hex Head Bolt (8)
¾" Round CR (30")
¼-20 x 1 Socket (2)
Handle Grips (2)
Timer & Retainer Case
"E" Rings (12)

PIVOT POST ASSEMBLY:

Post Assembly - 2½" x 12½" RD CR
Pivot Bolt - 7/8-14 x 5 Hex Head Bolt
5/8-18 Acorn Nut
Pivot Shaft Cap - 3/8 x 3½ x 3½ CR
5/16-18 x 1 Hex Head (4)
Needle Thrust Bearing Assembly (2)
Pressure Adjustment Wheel Casting
Post Assembly - 2½" x 12½" RD CR
Top Frame Casting (TFC)
TF Casting Machine

Front Cover Casting (FC)
Front Cover Cap (FCCP)
Stop Post ½" x 3" RD CR
Collar Stop Assembly
¼-20 x 1 Socket Head Screw (2)
Rear Cover
6-32 x ¼ Pan Head Screw (4)