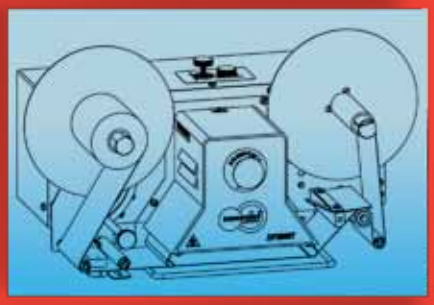
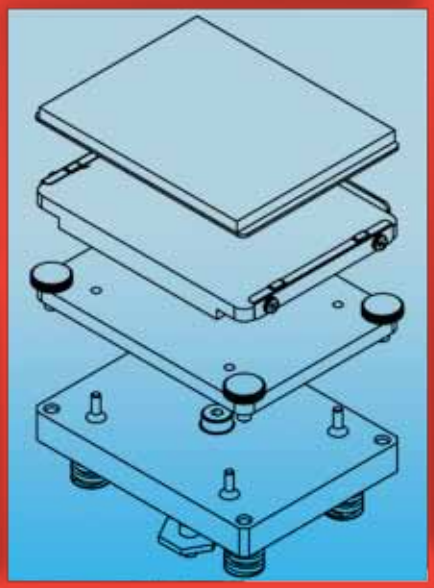
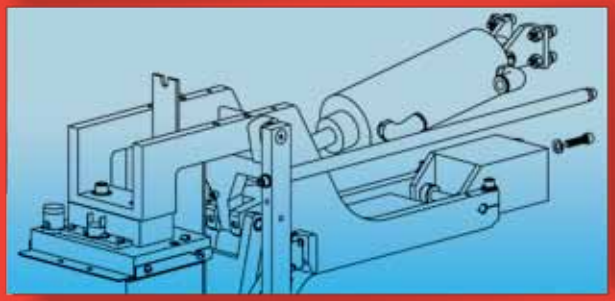
Thermopatch
Since 1934

DP-2000-T User manual







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Preface

Dear user,

Welcome to the growing group of Thermopatch users. The product you have purchased has been carefully designed and manufactured to ensure that you, the user, will gain the maximum benefit.

All Thermopatch products are specifically designed to ensure ease of use with particular attention to safety requirements.

Should you discover any fault or damage upon receipt of this product, you should immediately contact your local Thermopatch establishment.

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EC Declaration Of Conformity For Machinery

(according to Annex II A of the Machinery Directive)

We,

Thermopatch B.V.
Draaibrugweg 14
1332 Almere
The Netherlands

herewith declare, on our own responsibility, that the machinery:

marking machine **Thermopatch DP-2000 T**

which this declaration refers to, is in accordance with the conditions of the following Directive(s):

2006/42/EG	(Machinery directive)
2004/108/EG	(EMC directive)

The Netherlands, Almere, 29-09-2009

Jan Bausch,
Director

thermopatch.com

WARRANTY

Thermopatch Corporation, Syracuse, New York ("Seller") warrants this product to be free from defects in material and workmanship under normal use and service. Any part which proves to be defective in material or workmanship within one year of the date of original purchase for use, will be repaired or replaced, at Seller's option, free of service or labor charges, with a new or functionally operative part. Seller's liability under the Warranty shall be limited to repairing or replacing at its own factory or through an authorized service distributor or dealer, material which is determined by Seller to have been defective in manufacture and upon which a claim has been made by the original purchaser or user to Seller (or an authorized distributor or dealer) within the warranty period. Claims under this Warranty will be honored only upon written approval by an authorized officer of Seller. Approved return of parts or products will be on a prepaid transportation charges basis only. Claims under this Warranty will be honored only upon Seller's determination that the claim is covered by this Warranty, and Seller shall incur no obligation under this Warranty prior to such determination. This Warranty does not apply: (1) To any machinery or equipment which has been altered or repaired, except by Seller or its authorized representatives, or (2) to any machinery or equipment which has been subject to misuse, negligence, or accident, including, without limitation, use and operation of such machinery or equipment while parts are loose, broken, out of order, or damaged by the elements. Parts replaced under this Warranty are warranted only through the remainder of the original Warranty. Any and all claims for warranty service must include such information as Seller designates, and shall include specifically the serial number of each unit (if appropriate).

The foregoing shall constitute the sole and exclusive remedy of any using purchaser and the sole and exclusive liability of Seller in connection with this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS AND ALL OTHER OBLIGATIONS OR LIABILITIES OF SELLER, INCLUDING ANY TORT LIABILITY, FOR NEGLIGENT DESIGN OR MANUFACTURE OF THIS PRODUCT, OR OTHERWISE. It is expressly agreed that Buyer shall not be entitled to recover any incidental or consequential damages, as those terms are defined in the Uniform Commercial Code, and that Buyer shall have no right of rejection or of revocation of acceptance of any part or of revocation of acceptance of any part or all of the goods covered hereby.

Section 1

INTRODUCTION TO THE DECO-PRINT

The DECO-PRINT Model DP2000T machine as shipped, is set-up with a soft Platen and a Teflon covered heat plate, to apply inked transfers from a supply roll 7” or less in diameter. New features on this Machine is the opacity sensor to locate the transfer under the heat plate and an adjustable laser target dot that would appear on the garment where the transfer, label or imprint is to be. Also with this platen set-up the machine will heat seal individual labels, patches and transfers.

With the optional Printing Kit and accessories it achieves direct, permanent printing on most natural or synthetic fabrics by means of a heated printing device (printing plate), briefly striking on inked ribbon against the material to be marked. Depending on a customer’s requirements, the printing plate may be an engraved plate, changeable type slugs, or a combination.

A few applications for the DECO-PRINT machine are:

- Apply preprinted dry ink transfers from supply roll with automatic feed.
- Heat seal individual: garment identification labels, mending patches and transfers.

With the Optional PRINTING KIT and ACCESSORIES, direct printing can be done, as shown below.

- Printing of property marks, logos, and other information on sheets and the inside layers of pants, jackets, and other garments.
- Printing of company logos directly on suit bags, hospital linen, table linen, or shop wear.
- Print any of the above with different colors. Up to four, 1” wide ribbons or any combination up to 4” total width.

The DP2000T has a foot operated, electrically initiated print stroke and an air operated, electrically timed power print cycle. The transfer roll or ink ribbon roll advance is achieved by a motor drive. The heater is a cast aluminum block (called the heater head) directly above the heat or print plate. The head contains the cast in heating element controlled by an electronic heat control. Since the heat or print plate slides into guides attached to the heater head, it is easily changeable.

ACCESSORIES INCLUDED:

Hard rubber printing platen, 45637. See page 16.
(3) Separator discs,46780, to be used between different colored ribbon rolls (C-TAPE) on supply side. See page 15.
Print plate holder, 46007. See page 16.

PRINTING OPTIONS:

45957 - Special adapter plate to mount narrow plates previously used in the Model PAP304 machine.

PM-1330 - TYPE FONT KIT, 94 pieces, ¼" high to fit standard print plates listed below.

PP0500-01 – Print plate with (1) track.
PP0500-02 – Print plate with (2) tracks.
PP0500-03 – Print plate with (3) tracks.
PP0500-04 – Print plate with (4) tracks.

CUSTOM PRINT PLATES

Print plates can be fabricated to fit individual requirements using customer supplied artwork. Design can include tracks for individual type fonts or full phrase slugs.

Maximum design area using 4" wide ribbon is 4 ¾" x 3 ¾".

If the intent is to print with (2) or more different colored ribbons, the relief or space between adjacent fonts or engravings should be 7/32". Keeping in mind that ink ribbons are available in 13 standard or any custom color. Standard widths are 1", 2", 3" and 4" wide.

SAFETY INFORMATION

Each DECO-PRINT machine is equipped with a safety guard feature for the protection of the operator. The safety guard can be activated by two different methods: sensing the touch of your hand activates the metal bar on the safety guard. The safety guard also has switches that sense any obstruction. Once the safety guard is activated, the downward movement of the print will be interrupted and the "CLEAR" button must be pressed before the next print cycle. If an obstruction is met before this point, the power print cycle will not occur.

An Emergency Stop switch is provided which will immediately interrupt the downward movement of the printing head or power printing cycle and return to the normal positions. The switch must be reset before resuming operation.

CLEAN MACHINE PARTS WITH NON-FLAMMABLE CLEANING FLUIDS ONLY.

CAUTION: PRESSURE READING ON AIR GAUGE MUST NOT EXCEED 100 PSI (7.0 BAR)

The electrical system is three-wire and fully grounded. THIS THREE WIRE ELECTRICAL POWER CORD AND PLUG MUST ALWAYS BE USED WITH A PROPERLY GROUNDED OUTLET.

CAUTION: THE PRINTING HEAD AND PLATE MAY REACH TEMPERATURES AS HIGH AS 550°F (288°C) DURING NORMAL OPERATION. ALWAYS KEEP HANDS CLEAR OF THE PRINTING HEAD WHEN OPERATING MACHINE.

DO NOT LEAVE MACHINE UNATTENDED, IF POWER IS ON, LOSS OF AIR PRESSURE OCCURS, AND A GARMENT IS RESTING ON PLATEN. HEAD WOULD LOWER AND COULD CAUSE FIRE.

A CHECK VALVE IS IN PLACE TO PREVENT THIS, BUT IF THERE IS A SMALL AIR LEAK THE HEAD WILL COME DOWN AT SOME POINT.

Before operating make sure all covers are in place, and keep loose jewelry and clothing clear of machine during operation.

Before servicing machine, unplug electrical cord, disconnect air supply, and let printing head cool down.

MACHINE SPECIFICATIONS

Electrical Requirements	:	5 Amps @ 110 VAC 50/60 HZ Or 2.5 Amps @ 220 VAC, 50/60 HZ
Operating Air Pressure	:	25 PSI (1.8 BAR) Minimum to 70 PSI (4.8 BAR) Maximum 1.3 CFM (0.6 Liters/sec)
Dwell Time Setting	:	0.1 Seconds to 99.9 Seconds
Heat Range	:	200°-500°F (93° - 260°C)
Maximum Print Area	:	4-3/4” wide x 3-3/4” deep
Transfer Advance (Roll)	:	Sensor controlled stop is adjustable from 7 ½” to 13 ½” from the centerline of the platen
Ribbon Advance	:	0.1” to 6.0” (2.5mm to 152mm)
Ink Ribbon Width	:	4, 3, 2, and 1 inch (102, 76, 51, and 25 mm)
Multiple colors and widths	:	any combinations up to 4” total width
Opening Height (Between Printing Plate and Platen)	:	5.0” (127 mm)
Clearance (From Back of Platen to Machine)	:	1-3/4” (44 mm)
Weight	:	115 lbs. 52 kg.

FACTORY SETTINGS

Temperature	:	500°F (260°C)
Transfer time	:	2.0 seconds
Label seal time	:	12.0 seconds
Printing time	:	0.5 seconds
Air Pressure	:	50 PSI (3.5 BAR)
Transfer (Roll) Advance	:	5.0 in (126-128 mm)
Ribbon Advance	:	5.0 in (126-128 mm)

Section 2

DP2000T SETUP

Installation

SEE PAGE 25 Loosen the two screws on the top of the case in the back and install control box bracket, Item 5.

Insert the control box, Item 6, with the LCD up and pointing to the front of the machine.

Plug one side of the coil cable, Item 20, into the control box, Item 6, connector.

Plug the other end of the coil cable, Item 20, into the connector on the side of the machine.

SEE PAGE 45 Turn "Emergency Stop" switch, Item 4, in the direction of the arrow to make sure it is out.

SEE PAGE 48 - 49 Attach air filter/regulator, with fittings to the bulkhead fitting, Item 5, on the back of the machine. Orient as shown with the gauge facing forward.

Connect air supply to the male hose adaptor, Item 4.

SEE PAGE 52 Connect the foot pedal plug into the connector, Item 3 on right side of machine.

Connect power line cord to the machine power entry module, Item 4, and to power outlet.

Turn on the machine by pressing the rocker switch on the power entry module, Item 4, on the right side of the machine as viewed from the front.

SEE PAGE 35 - 36 Place flange assemblies on supply and take-up shafts.

Refer to pages 12 and 13 to set-up for transfer roll or ribbon (c-tape) roll

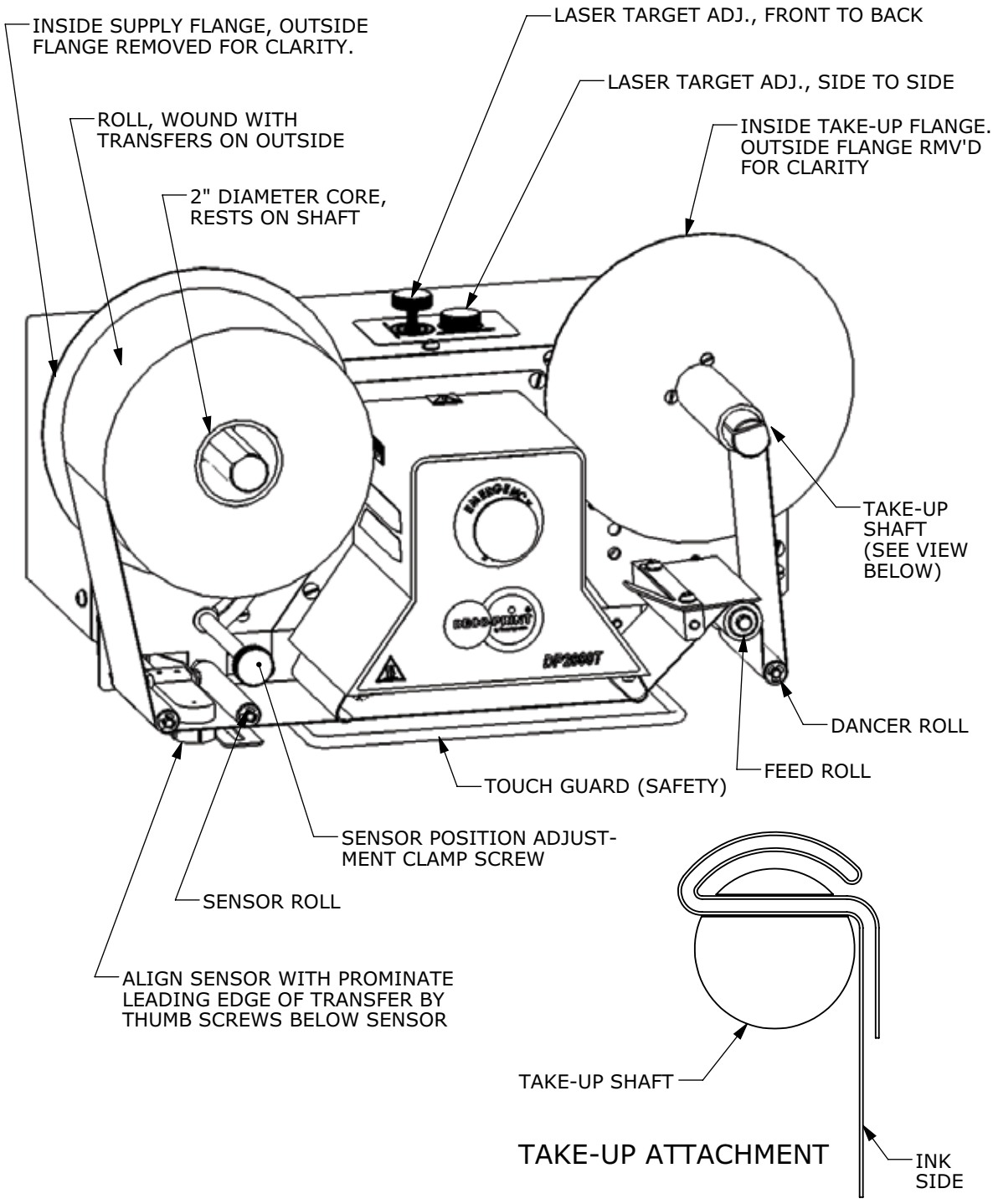
DP2000T SHIPMENT

Reverse setup procedure shown above.

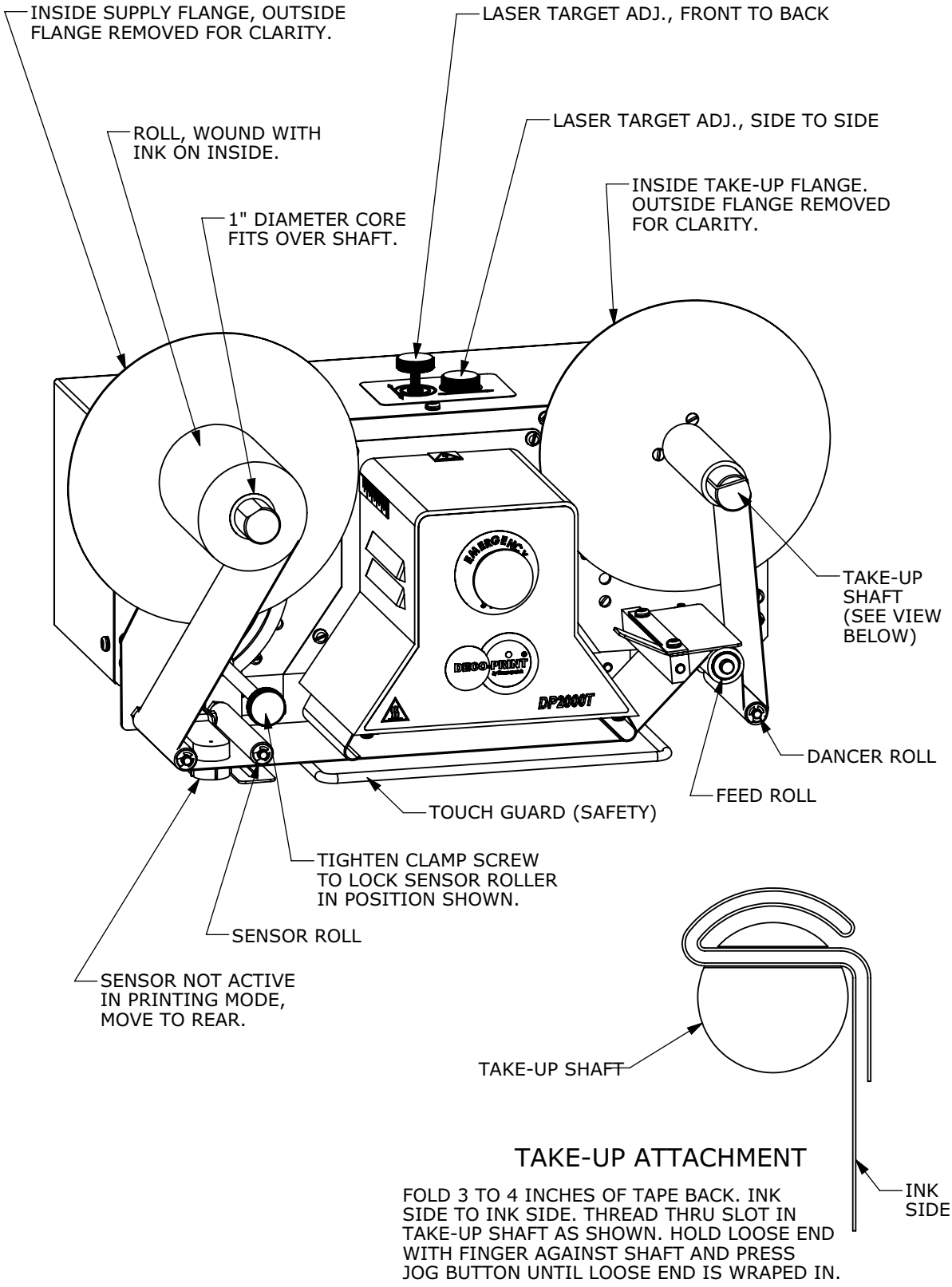
A check valve between air supply and air cylinder will prevent head from lowering. To lower head, Remove Cover, top rear, Item 3, see page 25. With a pen or other tool, push button on air solenoid to relieve pressure to air cylinder. The air solenoid is located on the left side at the rear of the machine, slightly forward of the cover opening. See page 48-49.

The machine should be shipped in a suitable shipping container, preferably, the one it was received in.

TRANSFER ROLL THREADING



RIBBON ROLL THREADING



TAKE-UP ATTACHMENT

FOLD 3 TO 4 INCHES OF TAPE BACK. INK SIDE TO INK SIDE. THREAD THRU SLOT IN TAKE-UP SHAFT AS SHOWN. HOLD LOOSE END WITH FINGER AGAINST SHAFT AND PRESS JOG BUTTON UNTIL LOOSE END IS WRAPED IN.

Transfer Tape Setup Feed Adjustment

The Setup Feed Adjustment is determined by measuring the Feed Length of the transfers on the roll. The Feed Length is the distance from the leading edge of an inked image to the next leading edge. The measured distance between leading edge of transfers is entered into the Operator's Control Module entitled Feed Length. The Feed Cycle begins upon completion of a Heating Cycle. The Take up Motor will start and the transfer tape will be advanced and stopped by the Sensor Eye. During the last ½" [12.70mm] of the Feed Cycle, the Sensor Eye will be activated and stop the Feed Cycle upon encounter of the following leading edge. Please review page 12 to ensure correct threading and correct Sensor Eye position.

Adjustment of the Outside Supply Flange will provide enough drag to maintain a taut span of transfer roll tape under the Upper Heating Plate.

To determine the Stop Position of the transfer roll; center the transfer over the Lower Sealing Platen and position sensor eye approx ¼" [6.35mm] past the edge of transfer.

Sensor Setup

The Sensor Eye adjustment range is 7 ½" [19.1cm] - 13 ½" [34.3cm] from the centerline of the Lower Sealing Platen. The following are examples of proper Sensor Eye distances:

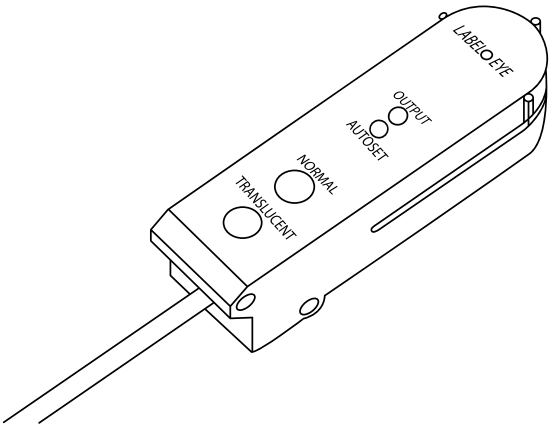
1. A transfer has a Feed Length of 4" [10.2 cm] and the transfer is 1" [2.54 cm] long, the Sensor Eye would be set to a distance of 7 ½" [19.1 cm] from the centerline of the platen (minimum distance). The Feed Length entered into the Operator's Control Module would be 4" [10.13 cm].

2. A transfer has a Feed Length of 2" [5.1 cm] and the transfer is 1" [2.54 cm] long, the Sensor Eye would be set to a distance of 7 ½" [19.1cm] from the centerline of the platen (minimum distance). The Feed Length entered into the Operator's Control Module would be 2" [5.1 cm].

3. Transfer Rolls That Cannot Be Used: all transfer rolls that measure more than 13 ½" [34.3 cm] from the leading edge to the centerline of the following transfer, and the transfer image is 4 ½" [11.43 cm] long, cannot be used in this machine.

Place Sensor Eye over the transfer roll webbing paper (transfer roll paper backing) in between transfer images. If the green and red output lights are illuminated and an * is displayed on the Operator's Control Module, push both (normal) and (translucent) buttons simultaneously on the Sensor Eye proper. This procedure inverts the output to the correct status, green light on.

Place the Sensor Eye over the transfer roll webbing. If the transfer roll has a clear (transparent) paper backing, depress



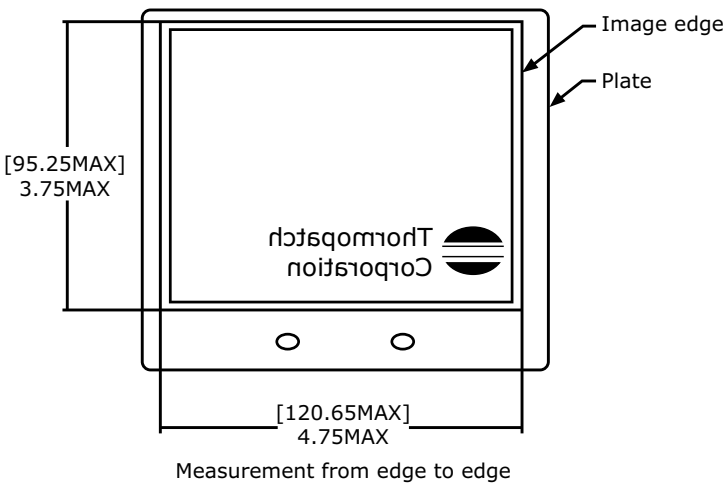
the normal button on the Sensor Eye proper until the output LED blinks. If the transfer roll has a translucent paper backing (not transparent), depress the translucent button on the Sensor Eye proper until the output LED blinks. This procedure sets the lowest level of opacity, any higher level will trigger the sensor.

Move transfer image or Sensor Eye so that eye is over the edge of transfer image (stop position). In this position, the red light will be on, * will be displayed on the Operator's Control Module.

Ribbon Tape Setup Feed Adjustment

The Ribbon Tape Feed Value advances the Ribbon Tape after printing. The entered Feed Value indexes the Ribbon Tape to the next position for the next print. The Feed Value (the distance that the machine indexes the Ribbon Tape) is entered and adjusted through the Operator's Control Module.

Caution; Ribbon Tape Tension may cause less Ribbon Tape to index than indicated on the Operator Control Module LCD Panel. Please review pages: (Ribbon Tape Feed Length, 18 - 19) and (Adjustment of Ribbon Tape, 16, Step 3).



Measurement from edge to edge

The distance between the left and right edges of the plate image determines the Feed Value for the amount of Ribbon Tape to index. To develop an approximate Feed Value, measure the length of the plate image and add a correction factor of .2" - .4" (5.1 mm - 10.2 mm) to the plate image dimension.

The above image is an example of a plate image with a horizontal edge to edge measurement of 4.75" [120.65mm]. Using a correction factor of .2" - .4" [5.1mm – 10.16mm] we develop a Feed Value range of 4.95" – 5.15" [125.7mm – 130.8mm].

ADJUSTING THE PRINTING PRESSURE AND PLATEN HEIGHT

Printing Pressure

Printing pressure is preset at the factory to 50 PSI. The printing pressure range is from 25 PSI (1.8 BAR) minimum to 70 PSI (4.8 BAR) maximum. NEVER EXCEED 70 PSI. In general, the larger the printing area, the higher the pressure required. The air regulator is located outside, at the rear of the machine. At the top of the regulator is a black knob. Pull upward to change the current setting. Turn the knob clockwise to increase the air pressure or counterclockwise to decrease the air pressure. After pressing down on the foot pedal and then releasing, check the air gauge reading. Readjust if necessary, then activate the foot pedal and release again for a new gauge reading. To lock in a setting, push the black knob down into its original position.

Printing Platen Adjustment

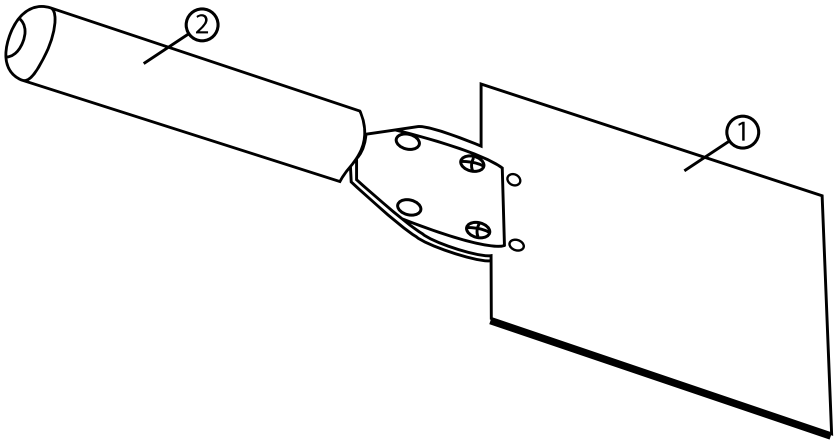
Occasionally, it may be necessary to increase the pressure on one corner or side of the printing platen in order to make it print better in that area. This might be true where an engraved design has a denser area in one corner. To adjust, locate the appropriate thumb screws below the rubber platen. Looking from the top, turn the screw counterclockwise to increase the pressure. NOTE: The platen is level when all screws are turned clockwise and the platen is put in its lowest position.

SETUP FOR (2) oR MORE RIBBONS

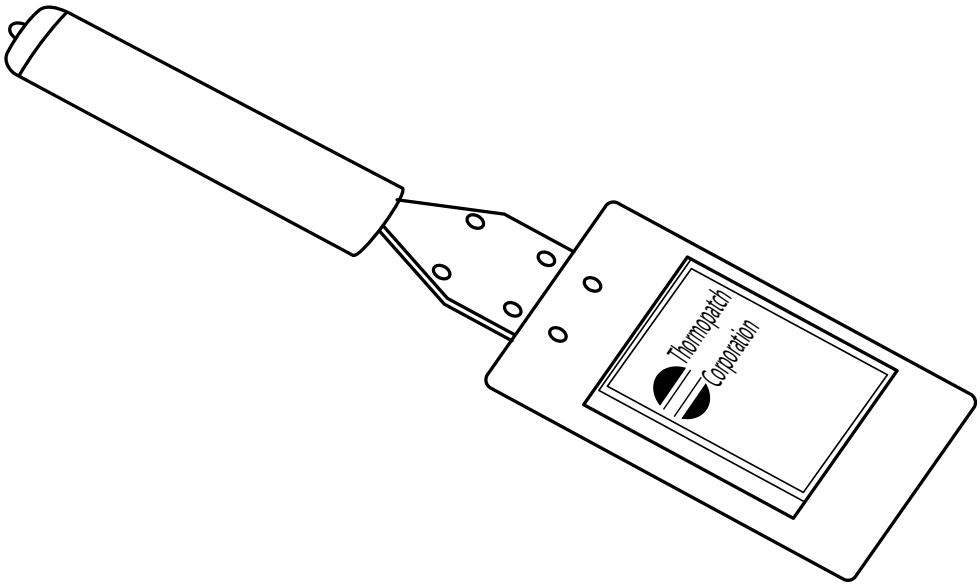
1. Multiple ribbons of different colors are threaded the same as a single ribbon shown on page 13. The rolls must be separated by a thin disc, to prevent interaction, when they are different outside diameters. Three discs are provided in the Optional Printing Kit, and are to be used on the unwind, or supply shaft.
2. Place one roll on shaft followed by a disc and push to rear. Repeat this procedure for each roll added. No disc is required after the last roll added. Replace the supply flange and clamp collar. If a single ribbon is used, push the three thin separator discs to the rear, against the supply flange or remove from machine for storage.
3. Usually the outer clamp collar can be adjusted to minimize endplay of the roll, because of the drag from the roll insert on the shaft. If the roll turns freely on the shaft, push the clamp collar in to create drag on the roll. Too much drag may cause the ribbon to break or the motor to stall. Do not stall motor.

4. Thread the tape through the machine: Refer to page 13 for a visual aid.
    - Unroll approximately two feet of tape off the roll.
    - Feed the tape under the sensor roller, under the heating iron, up and around the feed roller, down under the dancer roll, and up to the take-up shaft.
    - Attach to take-up shaft as shown on page 13.
    - Press the JOG button until the tape is taut through the machine.

INSERTING THE PRINTING PLATE



The above drawing shows a DP2000T Printing Plate (Item 1) (CUSTOM PART) and a Printing Plate Holder (Item2) P/N (46007). The Printing Plate Holder is provided for installation and removal of the Printing Plate. With the artwork facing down on the Printing Plate, apply a downward force just enough to slide the Printing Plate Holder forward. This locks the Printing Plate into place. Insert the plate into the plate mounting brackets on either side of the iron. Slide the plate in fully. Apply the same downward force and slide the Printing Plate Holder away from the machine. To remove the Printing Plate from the machine, just reverse the process. The Printing Plate is extremely HOT so caution must be taken when removing and placing it on a heat protective surface. Avoid any side to side motion of the Plate Holder while



inserting or withdrawing Print Plates. This motion tends to bend side guides and loosen heater mounting screws.

Note: If you bump the touch guard, press the CLEAR button on the controller box to reset.

CHOOSING THE PLATEN

Make sure the proper platen is being used. For printing the hard rubber platens are used. Use the soft rubber platen for heat sealing and dry ink transfers.

There should be a distance of at least 1/8” to 1/4” between the printed image and the outer edge of the platen.

TESTING THE TRANSFER ROLL FEED SET-UP

Run the machine through a few cycles holding a scrap cloth in place over the platen. Check to see if the machine is properly feeding the transfer tape, enough to position the next transfer in the correct position.

The transfer image target position is controlled by the location of the sensor when it stops the following transfer. To change this position, move sensor roll arm and retighten clamp screw.

The machine is ready to be operated.

TESTING THE RIBBON FEED ROLL SET-UP

Run the machine through a few cycles holding a scrap cloth in place over the platen. Check to see if the machine is properly feeding the tape, enough to clear for the next print. There should be a gap of 1/4” or more between the printed images on the used tape.

If there is less than 1/4”, increase the feed value slightly. If there is more than 1/4”, decrease the value slightly to reduce waste.

CORRECTING TAKE-UP PROBLEMS

Check that the used ribbon or transfer tape on the take-up shaft is not trying to fold over on the flange. If it is, the take-up flanges can be moved to the front or back of the machine to compensate. If this tracking problem continues, it may be caused by:

1. Not enough tape tension. Push in on the outer supply flange and tighten the thumb screw to produce more drag. A slack tape will tend to creep down the slope of the feed roll, since it is feeding in the up position.
2. The dancer or sensor roll being out of alignment. These rolls must be parallel, both horizontal and vertical with feed roll. The brackets these rolls are mounted to could become bent during shipment or by being bumped. Usually they can be bent and gauged by eye to the correct position.

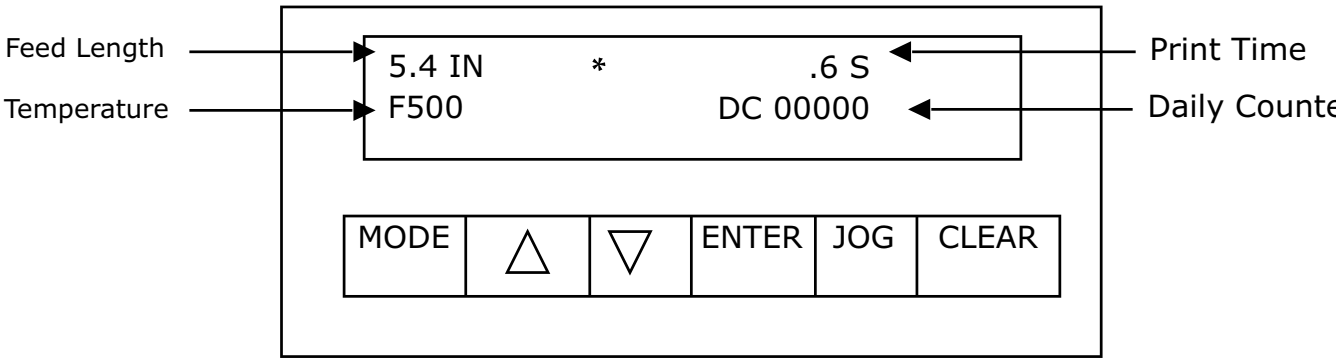
Make sure the used end of the ribbon is attached as shown on page 13. If the ink side of the ribbon is touching the take-up shaft or it's slot, or if tape tension is excessive the slot will close in and the used roll will be difficult to remove.

The machine is ready to be operated.

Section 3

CONTROL BOX

The Deco-Print machine features a digital control box, with six control buttons, shown below:



The display on control box in normal running mode shows:

Feed Length * Print Time
* (means sensor is sensing stop position on transfer)

Temperature Daily Counter

Press the ΔUP or ∇DOWN button once to change the Daily Counter (DC) to Continuous Counter (CC).
NOTE: The software version number will appear when machine is turned on.

To zero the Daily Counter (DC), press the ΔUP and ∇DOWN buttons simultaneously while the Daily Counter (DC) is displayed.

The Mode button switches the display to menu mode with 2 selections.

MACHINE SETUP
JOB SETUP

The MACHINE setup is used to set:

1. Display language (English, Nederlands, Italanio, Deutsch, Francais, Espanol)
2. Temperature scale (Fahenheit, Celcius)
3. Feed length (Inches, Millimeters)
4. Counter mode (Daily, Continuous)

The JOB setup menu is used to set:

1. Temperature
2. Feed length
3. Print or Seal time
4. Seal only option
5. Pattern marker option

Press the Enter button to cycle through the menu options when in menu mode.

The ΔUP and ∇DOWN arrow buttons increase or decrease the settings.

The Jog button advances the tape.

Note: Once the touch guard is activated, you must press CLEAR before the machine can print.

MACHINE SETUP

Press MODE to show choice of Job Setup or Machine. Press UP or DOWN button to select MACHINE SETUP.

1. Press Enter and select language. Press UP or DOWN button to select ENGLISH.
2. Press Enter and choose the temperature scale. Press UP or DOWN button to select FAHRENHEIT.
3. Press Enter and select feed length unit. Press UP or DOWN button to select INCH.
4. Press Enter and choose the counter, DC or CC. Press UP or DOWN button to select DC (daily counter).
   Press Enter to save the last setting.

JOB SETUP: To run Transfer Roll

Press MODE and select JOB SETUP with UP or DOWN button.

1. Press Enter and set temperature at 500 degrees F, or to suit, with UP or DOWN button.
2. Press Enter and set Feed Length at 4 inches by pressing UP or DOWN button
3. Press Enter and set Print Time at 2 seconds by pressing UP or DOWN button.
4. Press Enter and set Seal Only to NO, with the UP or DOWN button.
5. Press Enter and set Pattern Marker to YES with the UP or DOWN button.
   Press enter to save the last setting.

If the Job is using Ribbon (C-Tape), set Pattern Marker to NO. Leave Seal Only set to NO.

Change temperature, feed length, and time to suit.

If the JOB is to seal individual labels, patches, or transfers, Set Pattern Marker to NO. Set Seal Only to YES, this will disable the roll feed. Set temperature, time, and pressure to suit.

Press ENTER Button after each selection to save the settings.

The machine will automatically exit the menu mode if none of the buttons are pressed within 5 seconds.

Section 4

TROUBLESHOOTING

Before referring to the information below, check for proper set-up and operation as outlined in "DP2000T Setup".

Solutions are listed with the most probable ones listed first.

Some procedures may require completion by a person with some mechanical and electrical skill.

Call Customer Service for assistance or to order replacement parts.

Problem	Possible Cause	Solution
Display is blank	Machine is unplugged or outlet has no power	Check
	Emergency stop activated	Check
	Electrical power switch or light not "ON" or is defective	Check/Replace
	Loose or broken wires or connectors	Check/Repair
No heat	Machine is unplugged or outlet has no power	Check
	Electrical power switch is not "ON" or is defective	Check/Replace
	Temperature reading is incorrect	Replace
	Print head heat is defective	Replace
	Heat sensor is defective	Replace
	Defective temperature control	Replace
	Loose or broken wires or connectors	Check/Repair
	High limit thermostat is defective	Replace
High or low heat	Heat sensor is defective	Replace
	Defective temperature controller	Replace
	Temperature reading is incorrect	Adjust
	Loose or bad connectors	Check/Repair
	Short between sensor wires (high heat only)	Check/Repair
Print pressure drops or fluctuates (on air gauge or hisses)	Leak in air supply hose	Repair/Replace
	Dust is lodged in the air lines, regulator, or solenoid air Valves	Disassemble and clean

Problem	Possible Cause	Solution
Print head will not descend	Touch guard activated	Press Clear
	Temperature not ready	Wait
	Solenoid air valve not shifting	Replace
	Air supply not connected	Check
	Foot switch is unplugged or bad	Check/Replace
	Leak or restriction in air line or connections	Check/Repair
Print head too slow or fast	Flow control(s) adjustment is incorrect	See pg. 50-51 item 5
	Mechanical binding	Check & Correct
Timed power print cycle does not activate	Garment or cloth is too thick	Check
	Leak in hose or connections	Repair/Replace
	Defective microswitch	Replace
	Mechanical binding	Check & Correct
Print Head does not rise to the open position	Air solenoid valve not shifting	Check/Replace
	Leak or restriction in air line or connections	Check/Repair
	Mechanical binding	Check & Correct
Overall print is too light	Air pressure is too low	See pg. 16
	Temperature is too low	See pg. 20
	Time setting is too low	See pg. 20
Parts of design are not printed	Ink ribbon feed not working properly	Check threading per pg. 13
	Rubber print platen is dirty or worn	Clean or replace
	Ink ribbon not properly guided left to right	Check ink ribbon threading
	Overlap of printed impressions in used ink ribbon	Adjust longer see pg. 18-20
	Ink ribbon not wide enough	Use wider ribbon
	One corner of rubber platen needs adjustment	See pg. 16
Center of "O" "A", etc. is filled with ink, imprint is unclear	Temperature is too low	See pg. 20
	Time setting is too low	See pg. 20
	Engraved plate is dirty	Clean
	Pressure incorrect	Check & Correct

Problem	Possible Cause	Solution
When type slugs are used, print is unclear	Type slugs are dirty Deformed type slugs caused by high heat Pressure incorrect	Clean Adjust heat per Pg. 20-21 Replace slugs Check & Correct
Ink marks on back side of Garment	Ink build-up on rubber platen	Clean platen See page 56
Emergency stop push button will not operate	Push button is defective	Replace See page 45

OPERATIONAL MESSAGES

On power-up machine identification and version number will momentarily appear on the LCD display. The temperature wait message shown at the main display will be replaced by the continuous count or the daily count when the temperature is within 15 degrees Fahrenheit or 7 degrees Celsius of the set point temperature. The operator can change options during the warm-up period.

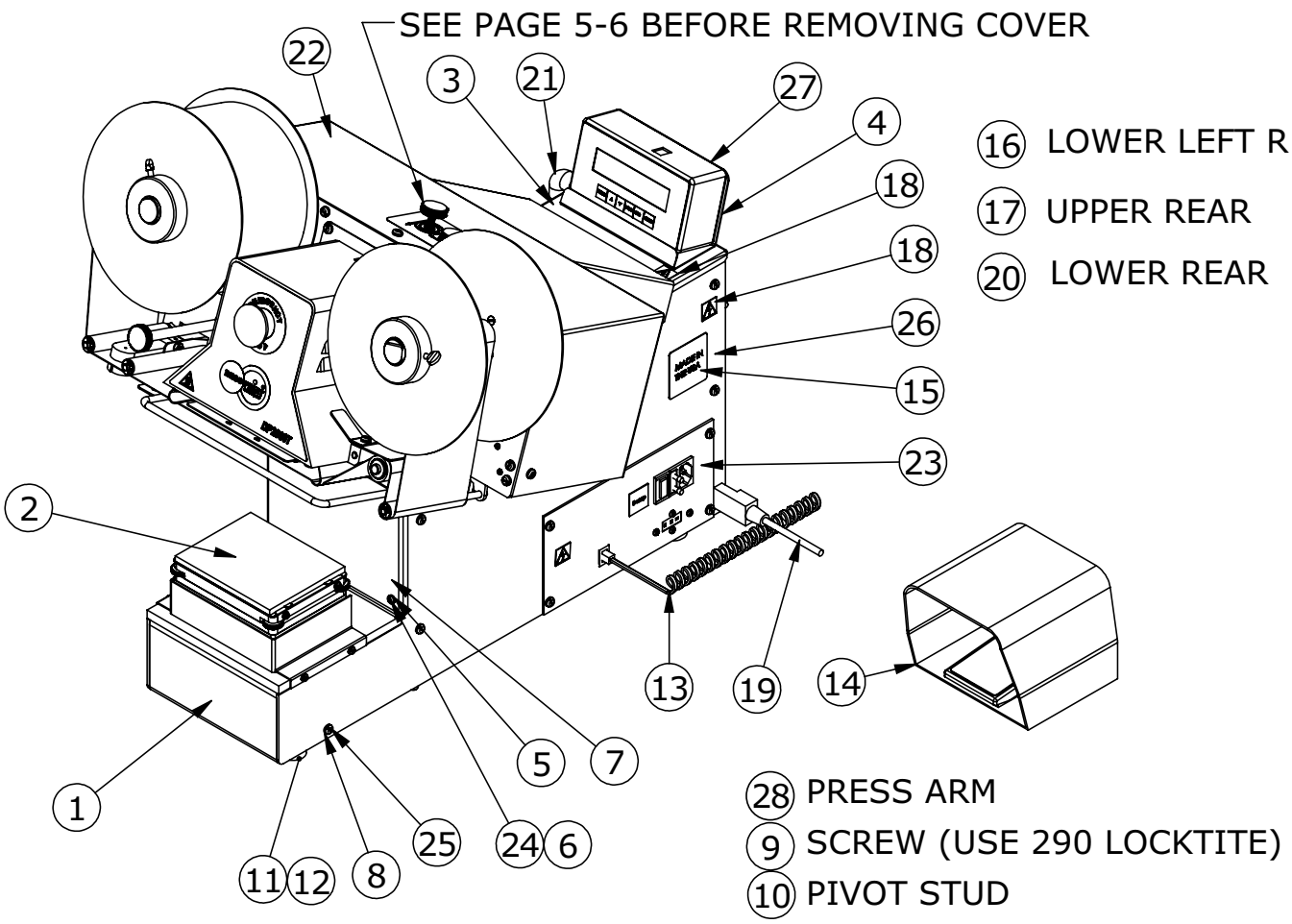
Temperature Controller Messages

The temperature controller will be interrogated and if a fault is detected one of the following messages will appear:

Line 1	Meaning/Response
Heater Failure Logic board	Temperature control board is either bad or unplugged
Heater Failure Heat Sensor	Temperature sensor is either bad or disconnected
Heater Failure Slow heat rise	Heater is bad or disconnected or temperature sensor is bad, disconnected or shorted
Heater Failure High temperature	Relay is bad or shorted, temperature sensor is bad or Shorted. Bad connections
Heater failure Unknown	Contact Thermopatch
Seal Switch ERR Display when touch guard is activated.	This indicates the seal down switch was not activated During a seal cycle if the top platen did not come down Check seal down switch and wiring
TOUCH GUARD FAULT	This indicates the guard was hit. Press the CLEAR Button.
WAIT/TEMP	This indicates the machine is heating up

Section 5

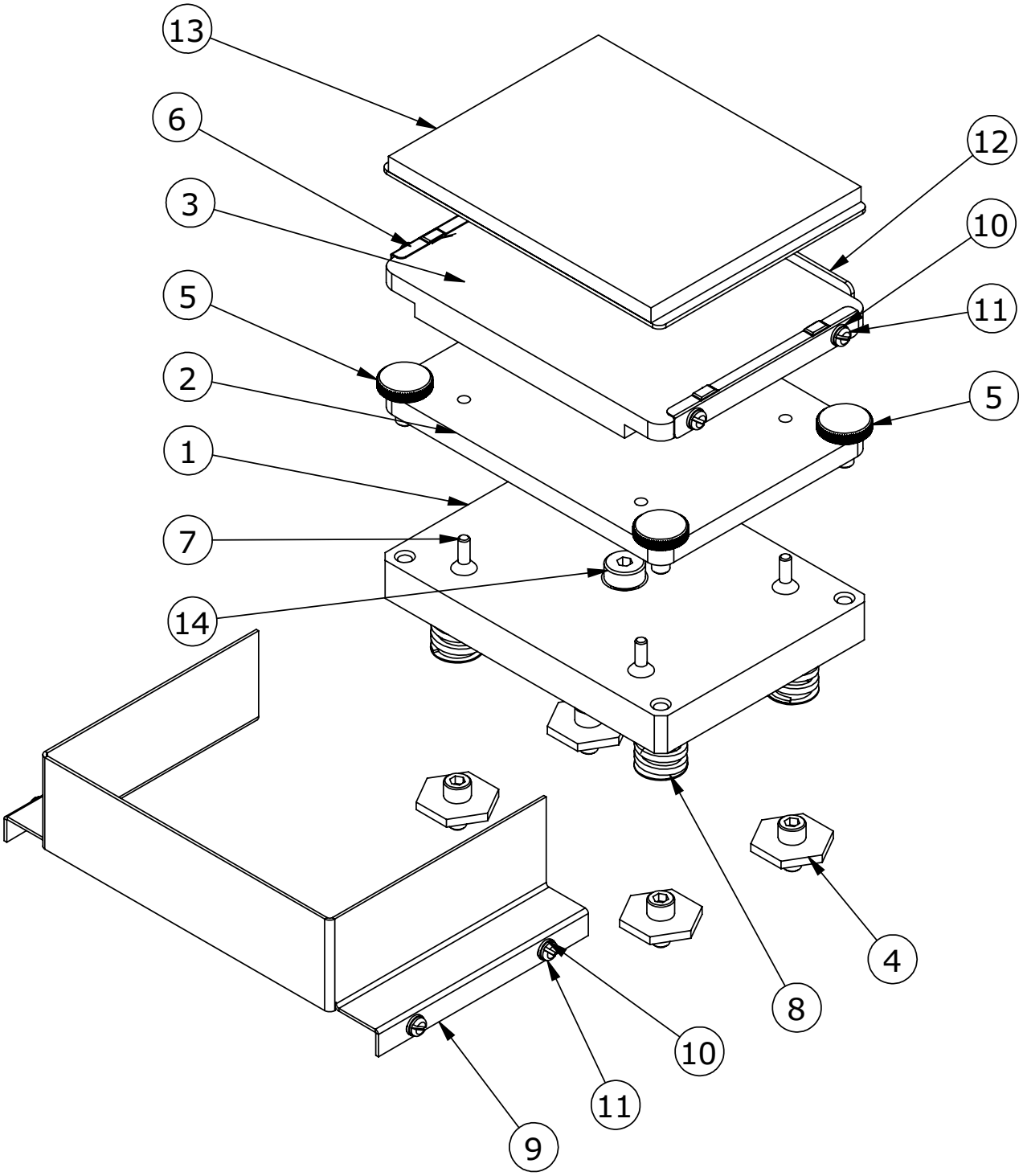
PARTS IDENTIFICATION AND LOCATION



DP2000T MACHINE ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46876	CASE WELDMENT	1
2	PLATEN ASSEMBLY	SEE PAGE 27 - 28	1
3	46882	COVER, TOP REAR	1
4	46788	BRACKET, CONTROL BOX	1
5	21021-06-A	L'W - INT NO. 8	8
6	21028-36	HEX STANDOFF #8-32	4
7	45678	COVER, CASE FRONT	1
8	21021-07-A	L'W - INT NO. 10	11
9	21062-04-G	FHSCS 1/4 - 20 X 5/8 LG	1
10	45576	STUD, PIVOT	1
11	21028-38	RUBBER BUMPER	4
12	21060-04-H	BHS 10-32 X 5/16 LG	4
13	20220-37	SHIELDED SERIES CABLE	1
14	43025	FOOT SWITCH W/ GUARD	1
15	44771	LABEL - MADE IN USA	1
16	42550	LABEL - SOLD AND SERVICED	1
17	DH-6785	LABEL, AIR SUPPLY	1
18	45426	LABEL, HIGH VOLTAGE	2
19 (Note 1)	20080-70	CORD - LINE 110V IEC CONN	1
20	46277	LABEL - SERIAL NO. / SPECS	1
21	PNEUMATICS	SEE PAGE 48 - 51	1
22	HEAD ASSY	SEE PAGE 35 - 36	1
23	ELEC BOX ASSY	SEE PAGE 52	1
24	21058-05-F	PHS 8-32 X 3/8 LG	4
25	21058-05-H	PHS 10-32 X 3/8 LG	11
26	46879	PLATE, R.H. SIDE	1
27	47149	CONTROL BOX ASSY	1
28	PRESS ARM ASSY	SEE PAGE 29 - 30	1

NOTE 1: FOR A 220V MACHINE, USE CORD #41969 10A 220V IEC OMIT ITEMS 15 AND 16

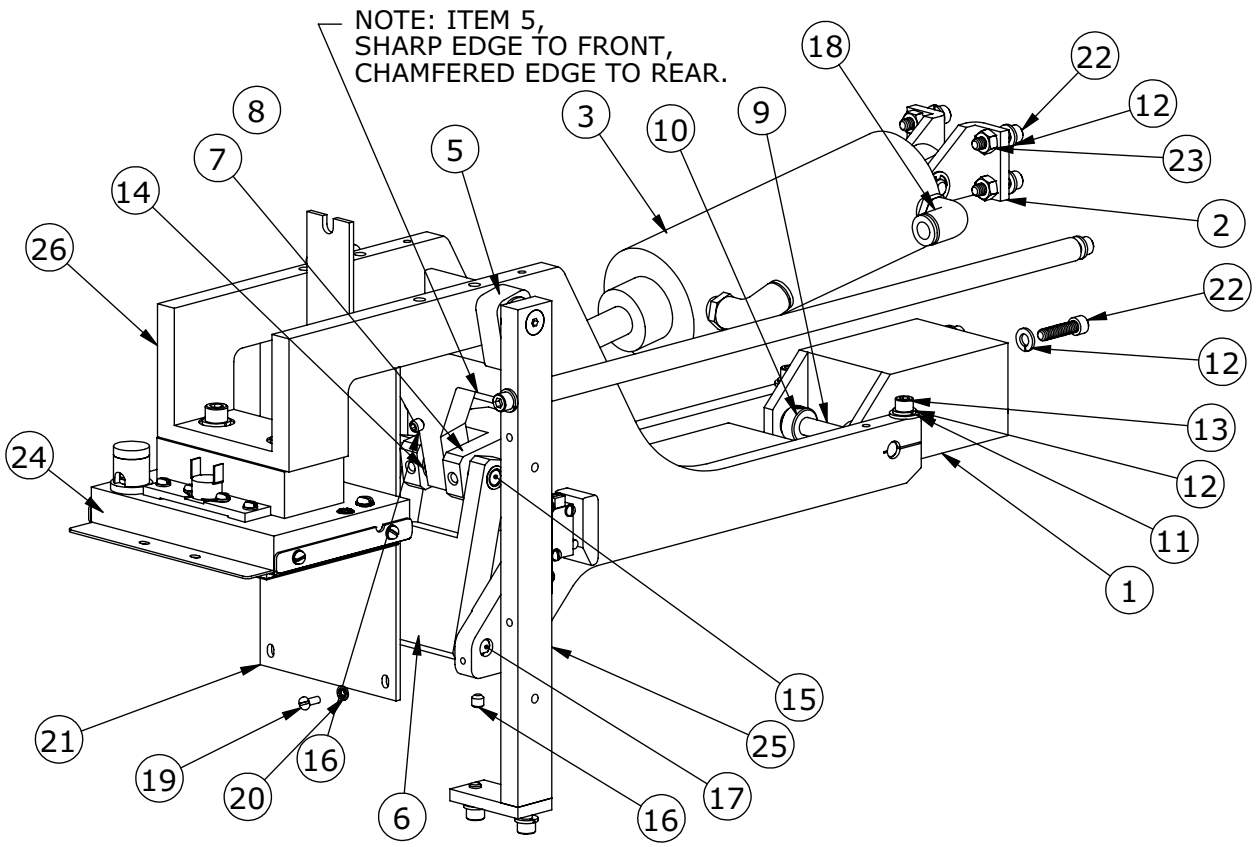


PLATEN ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	45587	PLATEN BLOCK	1
2	45619	RETAINER, PLATEN HOLDER	1
3	45621	PLATEN HOLDER	1
4	45642	SPRING ADJUSTMENT SCREW ASSY	4
5	21029-32	THUMB SCREW 1/4-20 X 3/4 LG X 3/4 HD	4
6	45582	PLATEN HOLDER GUIDE WELDMENT	2
7	21062-03-D	FLAT SOC HD SCR 8-32 X 1/2	4
8	24075-26	SPRING - COMPRESSION	4
9	46833	COVER, PLATEN BASE	1
10	21021-05-A	L'W - INT NO. 6	10
11	21069-03-E	PHS 6-32 X 1/4 LG SS	10
12	45620	STOP, PLATEN HOLDER	1
13 (Note 1)	46009	SEALING PAD ASSEMBLY	1
14	21006-06-C	SHLD SCR 3/8 X 1 1/4 LG	1

NOTE 1: IF MACHINE IS SET-UP FOR PRINTING, USE PRINT PLATEN #45637.

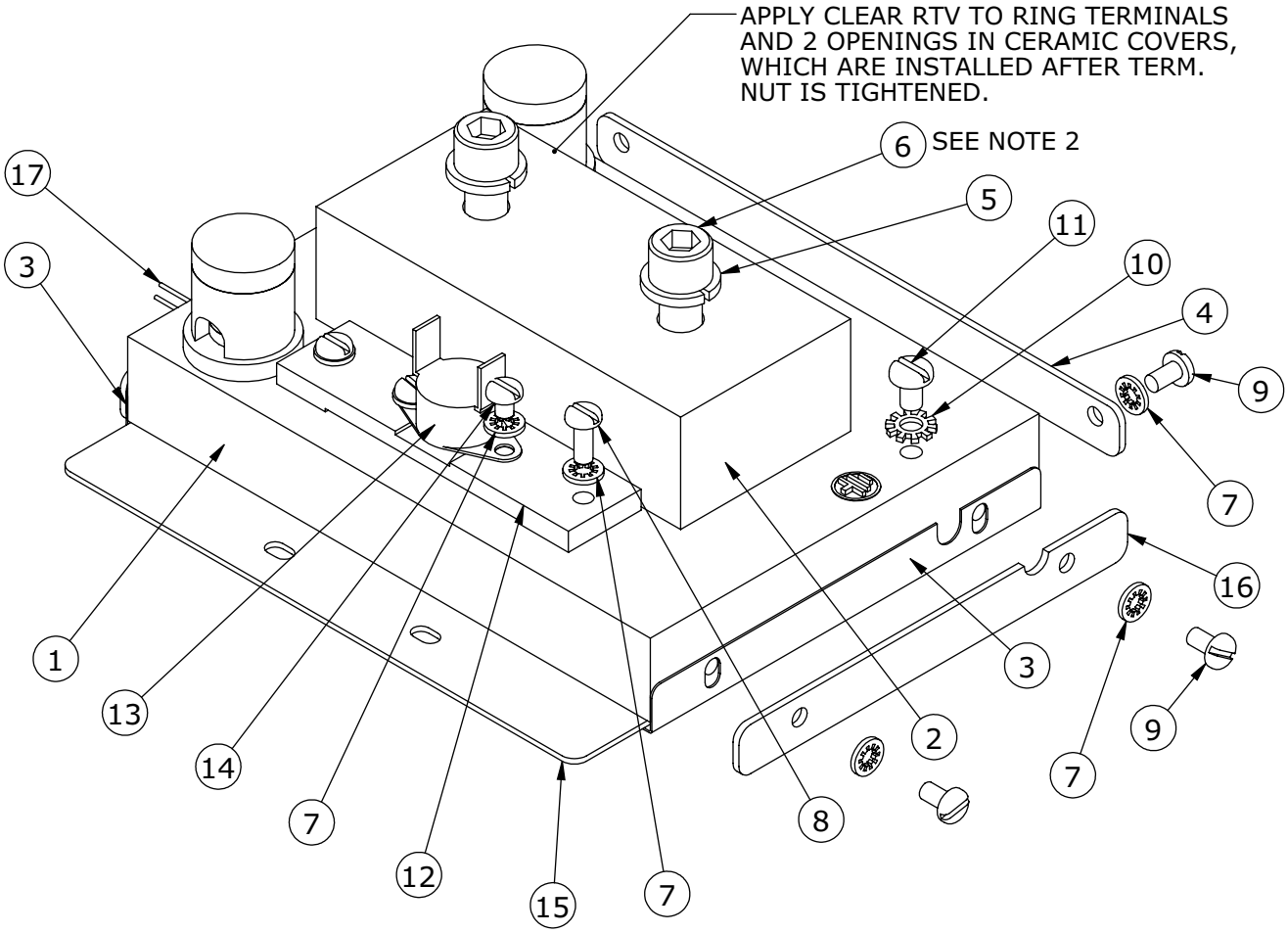
PLATEN ASSEMBLY



PRESS ARM ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	45591	ARM SUPPORT ASSY	1
2	22010-57	PIVOT MOUNT BRKTS (BIMBA)	1
3	22010-56	AIR CYLINDER, 2 1/2 BORE 3 1/2 STROKE	1
4	22010-56R	ROD, PART OF 22010-56	1
5	45578	UPPER LINK ASSY	1
6	46055	LOWER LINK ASSY	1
7	45589	CLEVIS - CYLINDER	1
8	21051-20-C	NUT, HEX JAM 1/2-20	1
9	45593	SHAFT, PRESS ARM	1
10	24016-22	SET SCREW COLLAR 3/8 BORE	2
11	21023-02	WASHER, FLAT 1/4	2
12	21021-09-C	L'W - SPLIT 1/4	10
13	21063-10-K	SHCS 1/4-20 X 1 1/2 LG	2
14	21022-12	THRUST WASHER 3/8 I.D.X3/4O.D.X.06TK	2
15	45573	SHAFT, CENTER LINK PIVOT	1
16	21011-05-L	SET SCW - CUP 1/4-20 X 1/4 LG	4
17	45583	SHAFT, LOWER LINK PIVOT	1
18	22015-34	ELBOW - 1/4 MPT X 3/8 TUBE	2
19	21058-05-E	PHS - 6-32 X 3/8 LG	2
20	21021-05-A	L'W - INT NO. 6	2
21	46937	COVER, FRONT	1
22	21063-08-K	SHCS 1/4-20 X 1.0 LG	8
23	21051-11-A	HEX NUT 1/4 - 20	4
24	HEATER ASSY	SEE PAGE 31	1
25	SUPPORT AND SWITCH ASSY	SEE PAGE 31	1
26	46947	PRESS ARM MACHINING	1

PRESS ARM ASSEMBLY

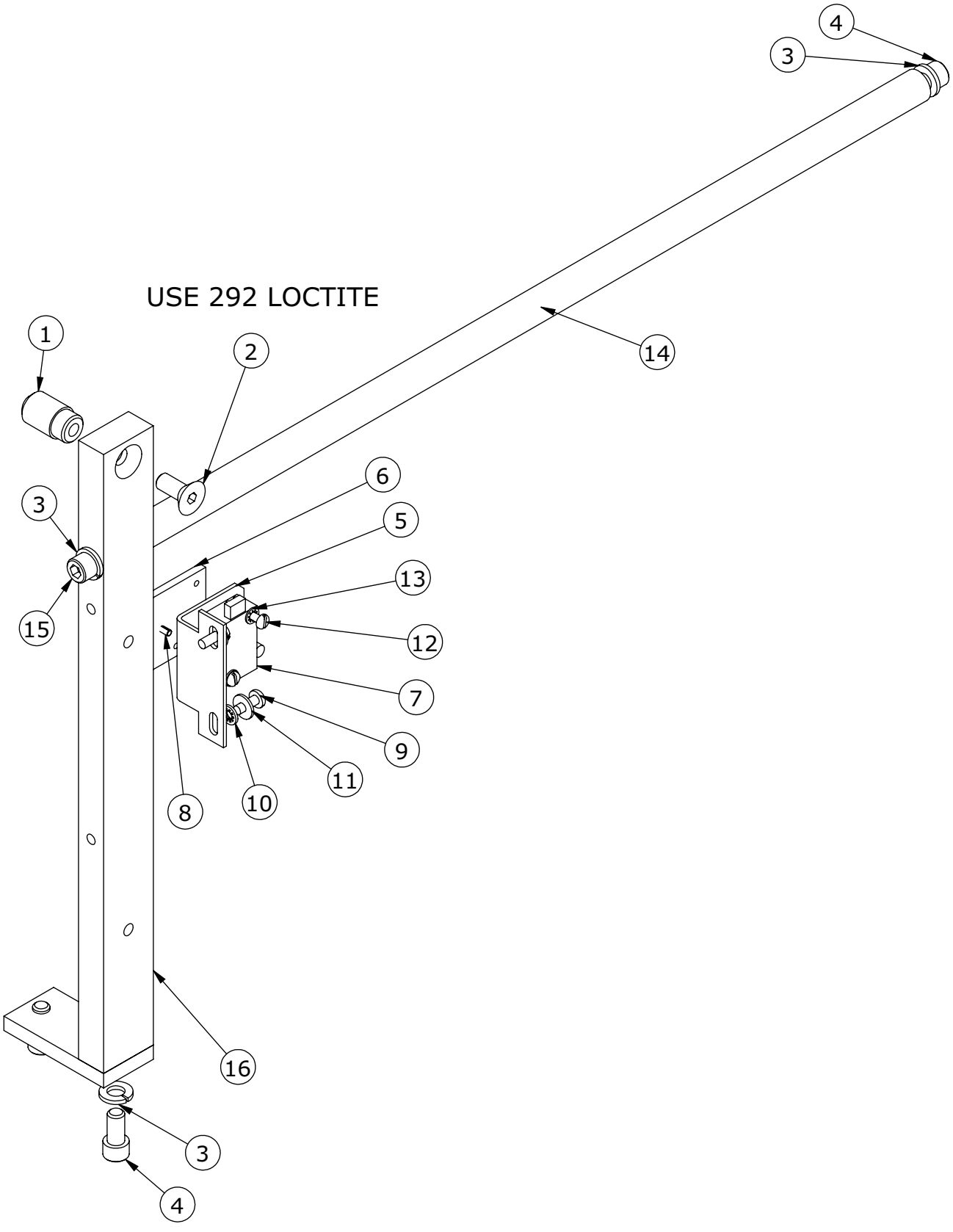


HEATER ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1 (NOTE 1)	45585	SEALING IRON MACHINING 110V	1
2	45579	INSULATOR BLOCK	1
3	45849	GUIDE WELDMENT,	2
4	45643	STOP, PRINTING PLATE	1
5	21021-10-C	L'W #5/16 SPLIT	2
6	21050-192	SHCS 5/16-18 X 2.0 LG S.S.	2
7	21021-05-A	L'W - INT NO. 6	10
8	21069-05-E	PHS 6-32 X 3/8 LG SS	2
9	21069-03-E	PHS 6-32 X 1/4 LG SS	6
10	21021-06-B	L'W - EXT NO. 8	1
11	21069-03-F	PHS 8-32 X 1/4 LG SS	1
12	45451	ADAPTER, HIGH LIMIT	1
13	20018-24	THERMOSTAT- HI LIMIT	1
14	21069-02-E	PHS 6-32 X 3/16 LG SS	2
15 (NOTE 3)	46012	SEALING PLATE ASSEMBLY	1
16	46942	PLATE, PRINT GUIDE SUPPORT	2
17	46904	TEMPERATURE SENSOR ASSY	1

NOTES:
1. FOR A 220V MACHINE, USE SEALING IRON #45639.
2. APPLY ANTI-SEIZE COMPOUND TO THREADS, WHEN MOUNTING. TORQUE TO 60 IN-LBS AND RE-TORQUE AFTER INITIAL HEATING.
3. IF MACHINE IS SET-UP FOR PRINTING, USE CUSTOM PRINT PLATE OR MULTI-TRACK PRINT PLATE, SEE PAGE 17 - 18.

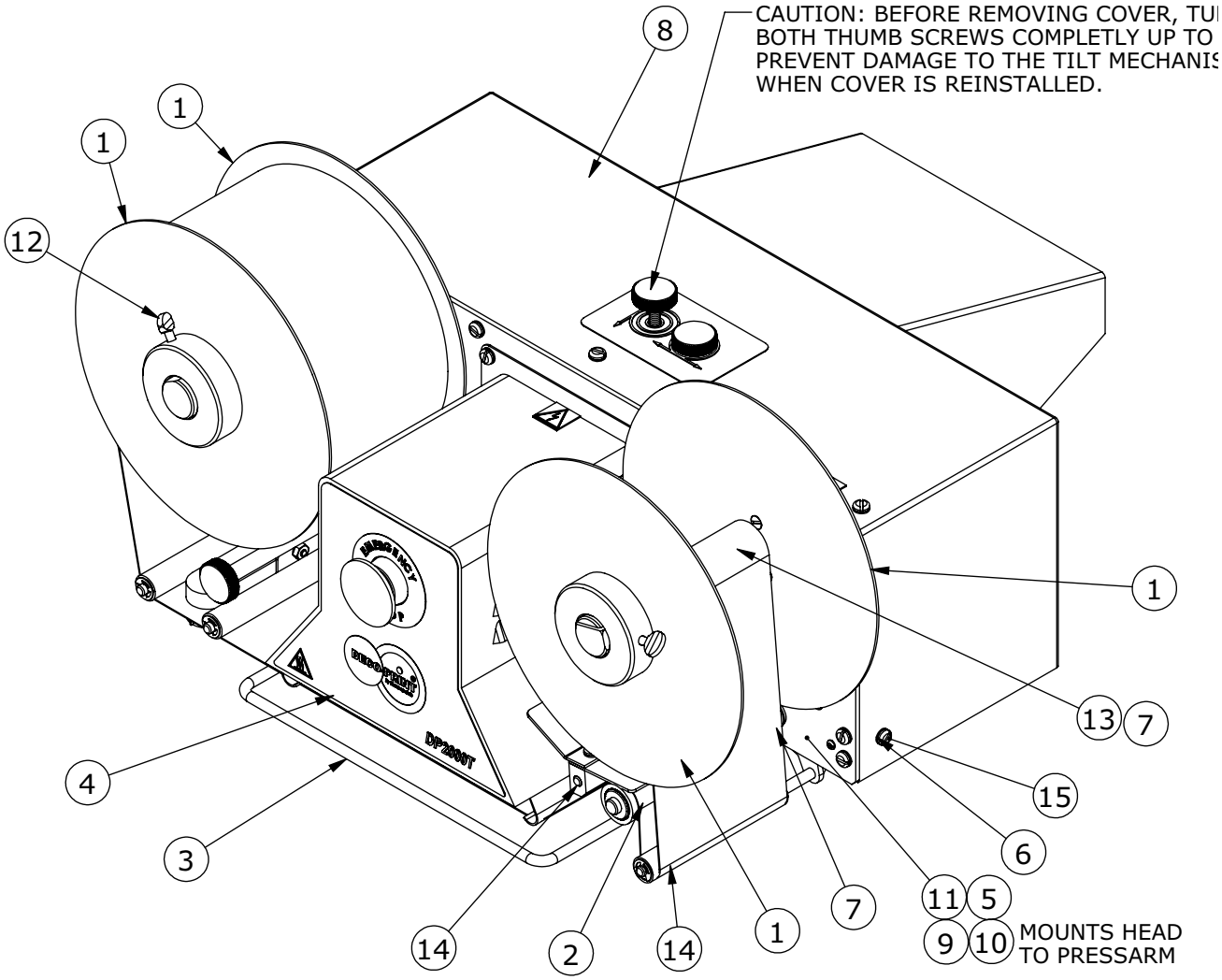
HEATER ASSEMBLY



SUPPORT AND SWITCH ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	45576	STUD, PIVOT	1
2	21062-04-G	FHSCS 1/4 - 20 X 5/8 LG	1
3	21021-09-C	L'W - SPLIT 1/4	4
4	21063-04-K	SHCS - 1/4-20 X 1/2 LONG	3
5	45613	BRACKET, SEAL SWITCH	1
6	45712	NUT PLATE, SEAL SWITCH	1
7	20055-73	SWITCH - MICRO	1
8	21033-03-B	SPRING PIN, 3/32 X 3/8 LG	1
9	21058-05-E	PHS - 6-32 X 3/8 LG	2
10	21021-05-A	L'W - INT NO. 6	2
11	21023-22	WASHER - FLAT NO. 6	2
12	21057-08-C	RHS 4-40 X 5/8 LG	2
13	21021-03-A	L'W - INT NO 4	2
14	46940	ROD, SUPPORT	1
15	21063-10-K	SHCS, 1/4-20 X 1 1/2 LG	1
16	46946	SUPPORT, WELD & MACHING R.H.	1

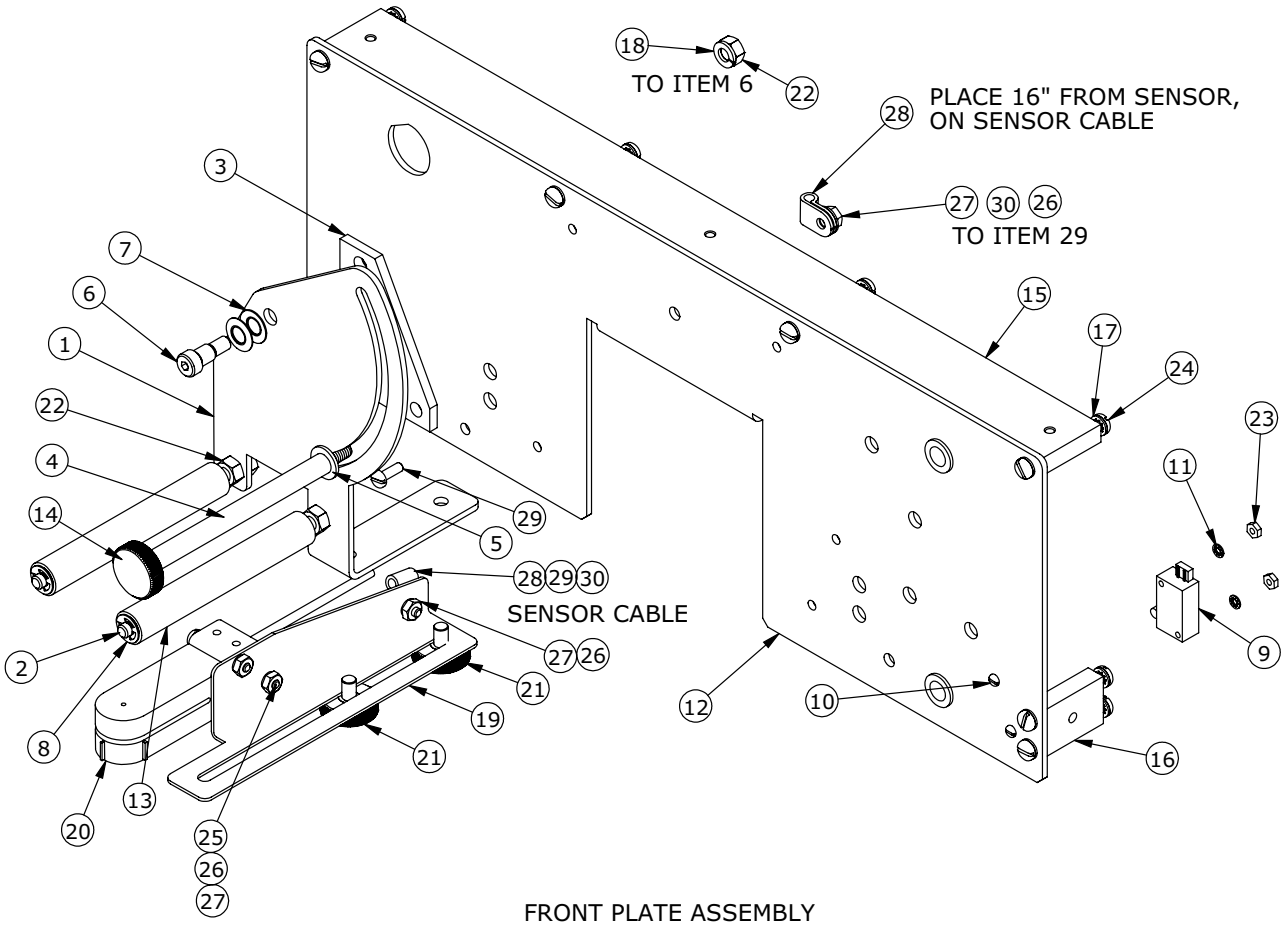
SUPPORT AND SWITCH ASSEMBLY



HEAD ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46893	FLANGE ASSY	4
2	46916	DRIVE ROLL ASSY	1
3	TOUCH GUARD ASSY	SEE PAGE 43 - 44	1
4	COVER ASSY, HEATER	SEE PAGE 45	1
5	REAR PLATE ASSY	SEE PAGE 39 - 40	1
6	21021-07-A	L'W - INT NO. 10	11
7	21011-04-K	SET SCREW 10-32 X 3/16 LG	4
8	COVER ASSY, HEAD	SEE PAGE 46 - 47	1
9	21063-05-K	SHCS 1/4 - 20 X 3/4 LG	4
10	21021-09-C	L'W - SPLIT 1/4	4
11	FRONT PLATE ASSEM	SEE PAGE 37 - 38	1
12	21065-05-D	THUMB SCREW 10-32 X 1" W/ NYLON TIP	4
13	46895	SHAFT, TAKE UP	1
14	DANCER ROLL ASSY	SEE PAGE 42	1
15	21058-05-H	PHS 10-32 X 3/8 LG	11

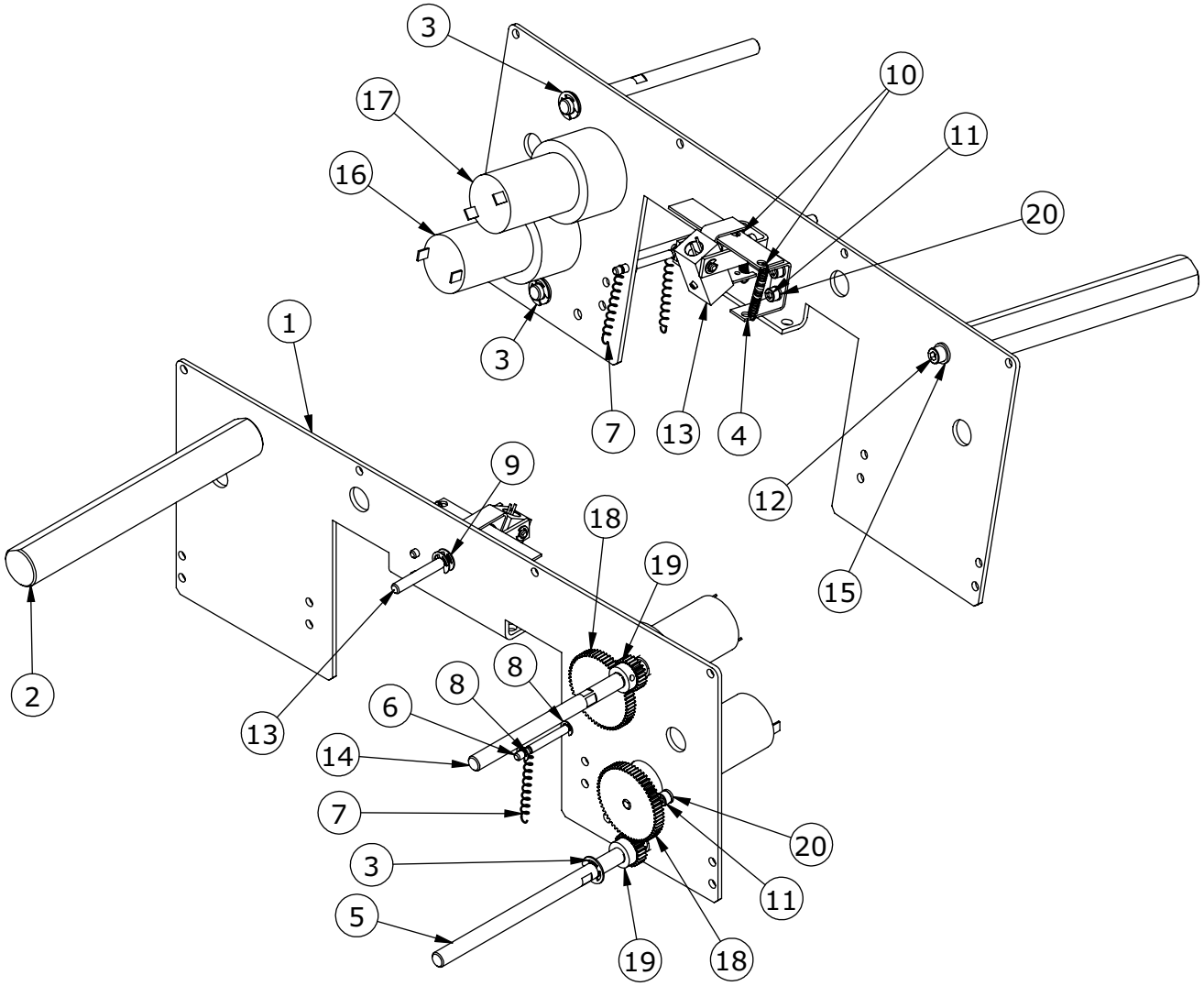
HEAD ASSEMBLY



FRONT PLATE ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46899	BRACKET, SENSOR	1
2	46900	SHAFT, SENSOR ROLL	2
3	46901	PLATE, SENSOR BRACKET SPACER	1
4	46902	SPACER, CLAMP SCREW	1
5	21023-02	WASHER, FLAT 1/4	1
6	21006-01-B	SHOULDER SCREW 5/16 X 3/8 LG	1
7	21050-232	BELLEVILLE DISC SPRING .317 X .625 X .042	2
8	D-9702	E-RING 1/4 5133-25	4
9	20055-73	SWITCH - MICRO	1
10	21057-09-C	RHS 4-40 X 3/4 LG	2
11	21021-03-A	L'W - INT NO 4	2
12	46885	PLATE ASSY, FRONT	1
13	46939	ROLLER ASSY, IDLER	2
14	46941	THUMB SCREW ASSY 1/4-20 X 5"LG	1
15	46943	SPACER, HEAD PLATES	1
16	46921	SPACER, HEAD PLATE	2
17	21021-07-A	L'W - INT NO. 10	16
18	21021-09-C	L'W - SPLIT 1/4	1
19	46903	BRACKET, SENSOR ADJ.	1
20	46944	SENSOR ASSEMBLY	1
21	21029-61	THUMB SCREW ASSY 1/4-20 X 3/8"LG	2
22	21051-11-A	HEX NUT 1/4 - 20	5
23	21051-03-A	HEX NUT 4-40	2
24	21058-05-H	PHS 10-32 X 3/8 LG	16
25	21058-13-F	PHS - 8-32 X 1 1/4 LG	2
26	21021-06-A	L'W - INT NO. 8	4
27	21051-07-A	HEX NUT - NO. 8-32	4
28	D-1453-1	CLAMP - 3/16 CABLE	2
29	21058-07-F	PHS 8-32 X 1/2 LG	2
30	21023-23	WASHER - FLAT NO. 8	2

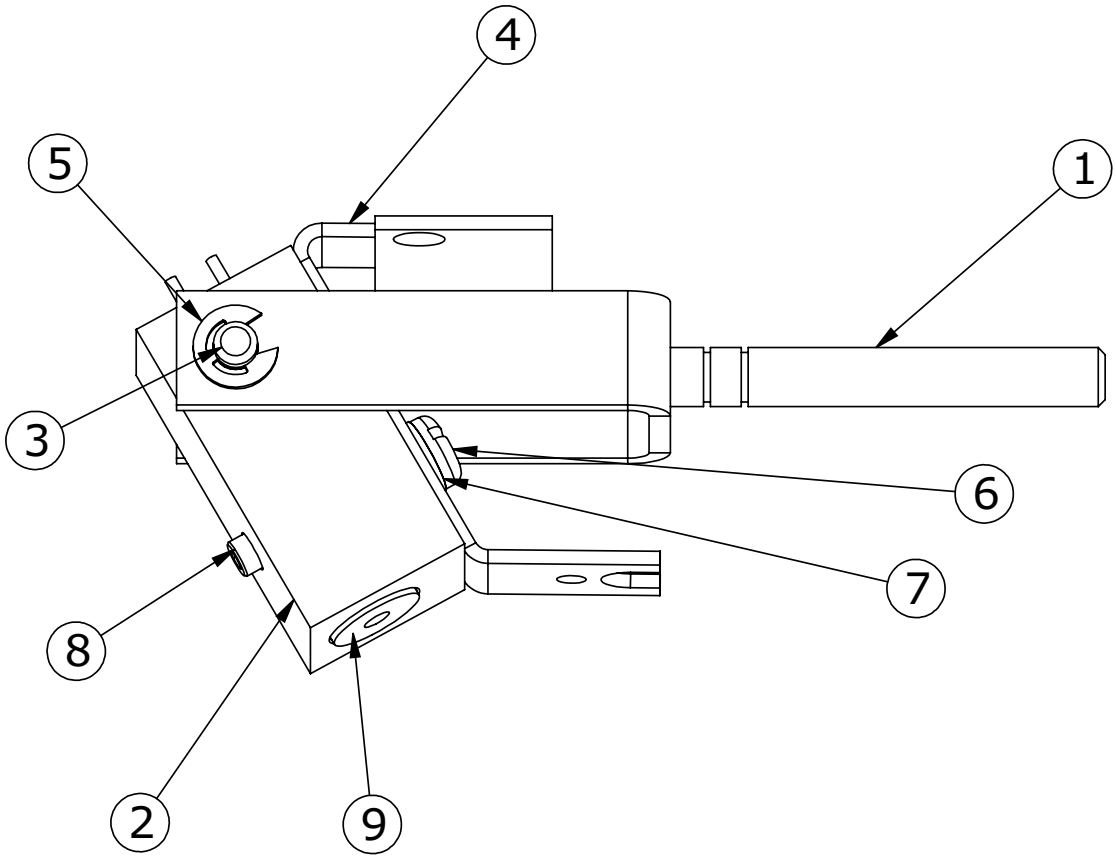
FRONT PLATE ASSEMBLY



REAR PLATE ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46886	PLATE ASSY, REAR	1
2	46778	SHAFT, UNWIND	1
3	D-9705	E-RING 5133-37	3
4	46936	BRACKET, LASER SPRING	1
5	46915	SHAFT, DRIVE ROLL	1
6	46919	PIN, DRIVE ROLL SPRING	1
7	DF-7180	SPRING - EXT LE-029C-4	2
8	D-9701	E - RING 5133-18	2
9	D-9702	E-RING 1/4 5133-25	2
10	24080-36	SPRING - EXT LE-031C-1	2
11	21063-03-J	SHCS - 10-32 X 3/8 LONG	6
12	21063-04-K	SHCS - 1/4-20 X 1/2 LONG	1
13	LASER ASSY	SEE PAGE 41	1
14	46881	SHAFT, TAKE-UP DRIVE	1
15	21021-09-C	L'W - SPLIT 1/4	1
16	46892	MOTOR ASSY, CAPSTAN	1
17	46891	MOTOR ASSY, TAKE-UP	1
18	24035-26	GEAR, 60T 32DP 1/4 BORE	2
19	46956	GEAR, 24T 3/8 BORE MODIFIED	2
20	21021-07-C	L'W - SPLIT #10	6

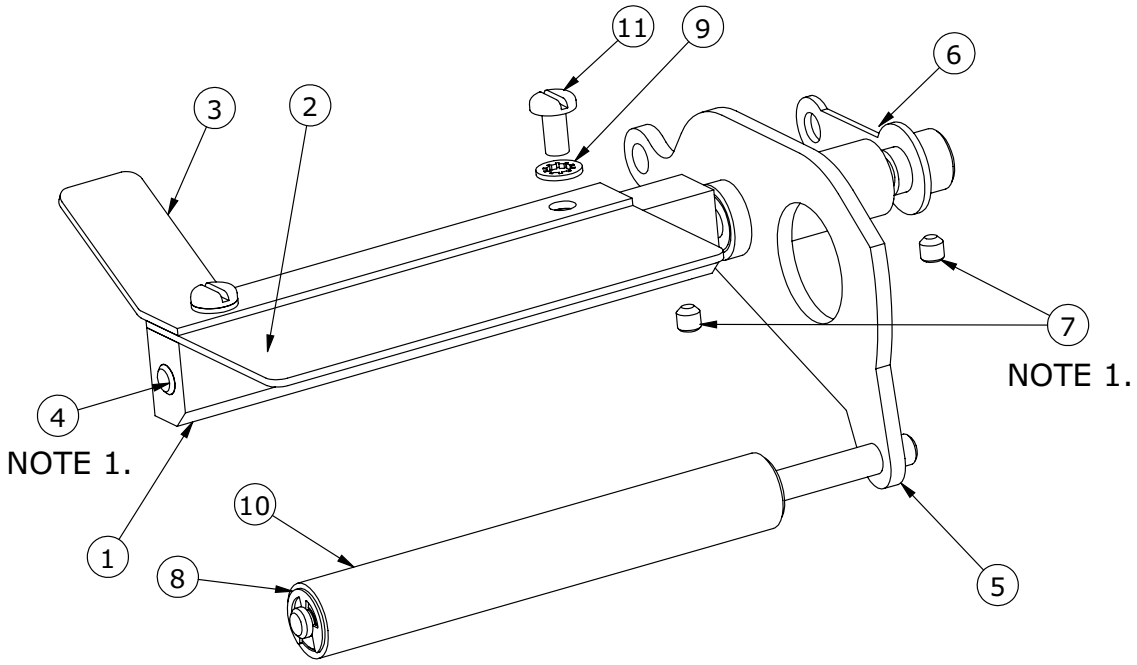
REAR PLATE ASSEMBLY



LASER ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46922	YOKE ASSY, LASER	1
2	46934	BLOCK, LASER	1
3	46933	PIN, LASER BLOCK	1
4	46935	BRACKET, LASER BLOCK	1
5	D-9701	E - RING 5133-18	2
6	21058-03-F	PHS 8 - 32 X 1/4 LG	2
7	21021-06-A	L'W - INT NO. 8	2
8	21011-04-H	SET SCREW 8-32 X 3/8 LG	1
9	46896	LASER LIGHT ASSY	1

LASER ASSEMBLY

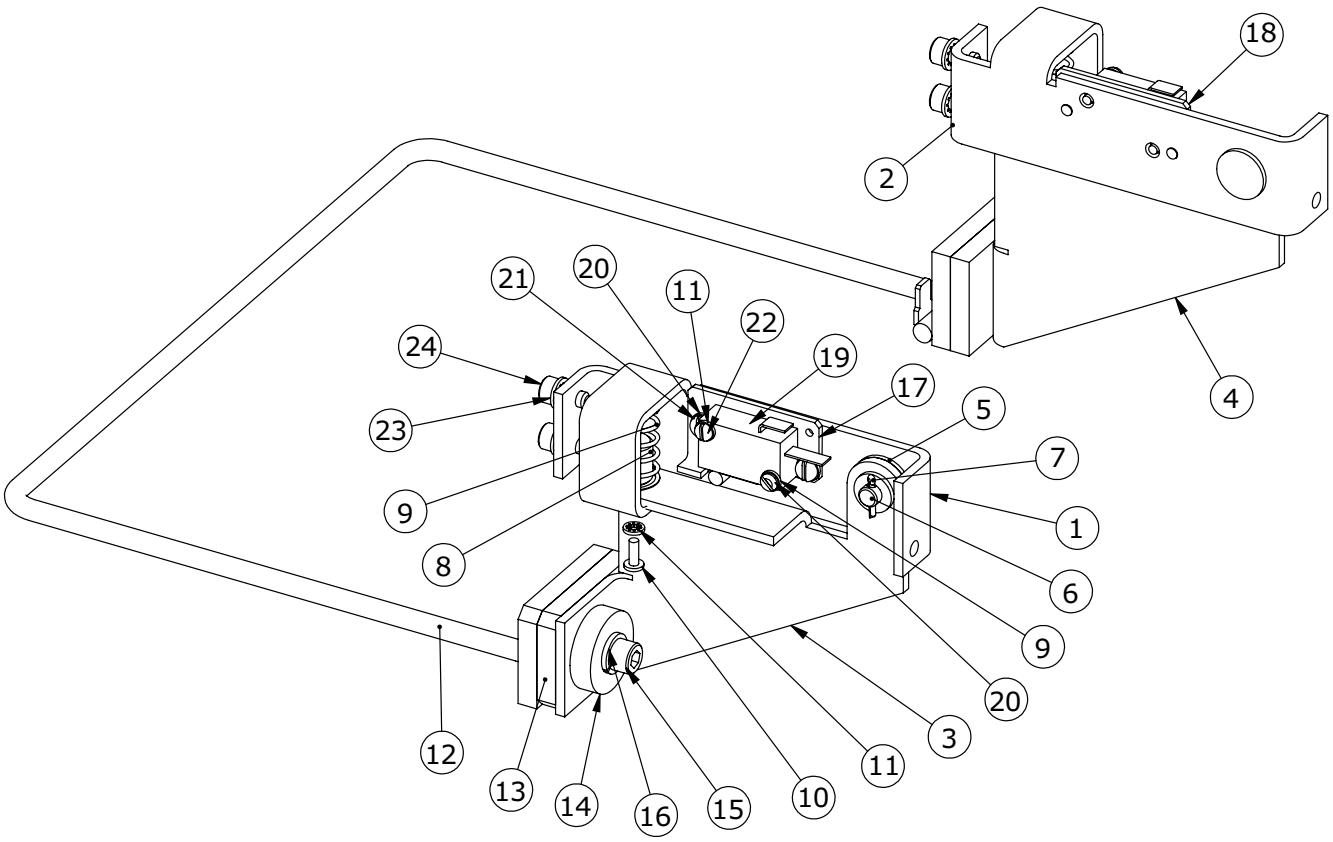


DANCER ROLL ASSEMBLY

NOTE 1. ADJUST FOR APPROX .02 SHAFT ENDPLAY, TO ENABLE FREE MOVEMENT OF ITEM 2.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46912	BLOCK, LEAF SPRING	1
2	46914	LEAF SPRING	1
3	46913	HANDLE, SPRING	1
4	46909	SHAFT, PIVOT	1
5	46905	ARM ASSY, DANCER ROLL	1
6	46910	ARM ASSY, SPRING	1
7	21011-04-K	SET SCREW 10-32 X 3/16 LG	2
8	D-9702	E-RING 1/4 5133-25	2
9	21021-07-A	L'W - INT NO. 10	2
10	46939	ROLLER ASSY, IDLER	1
11	21058-05-H	PHS 10-32 X 3/8 LG	2

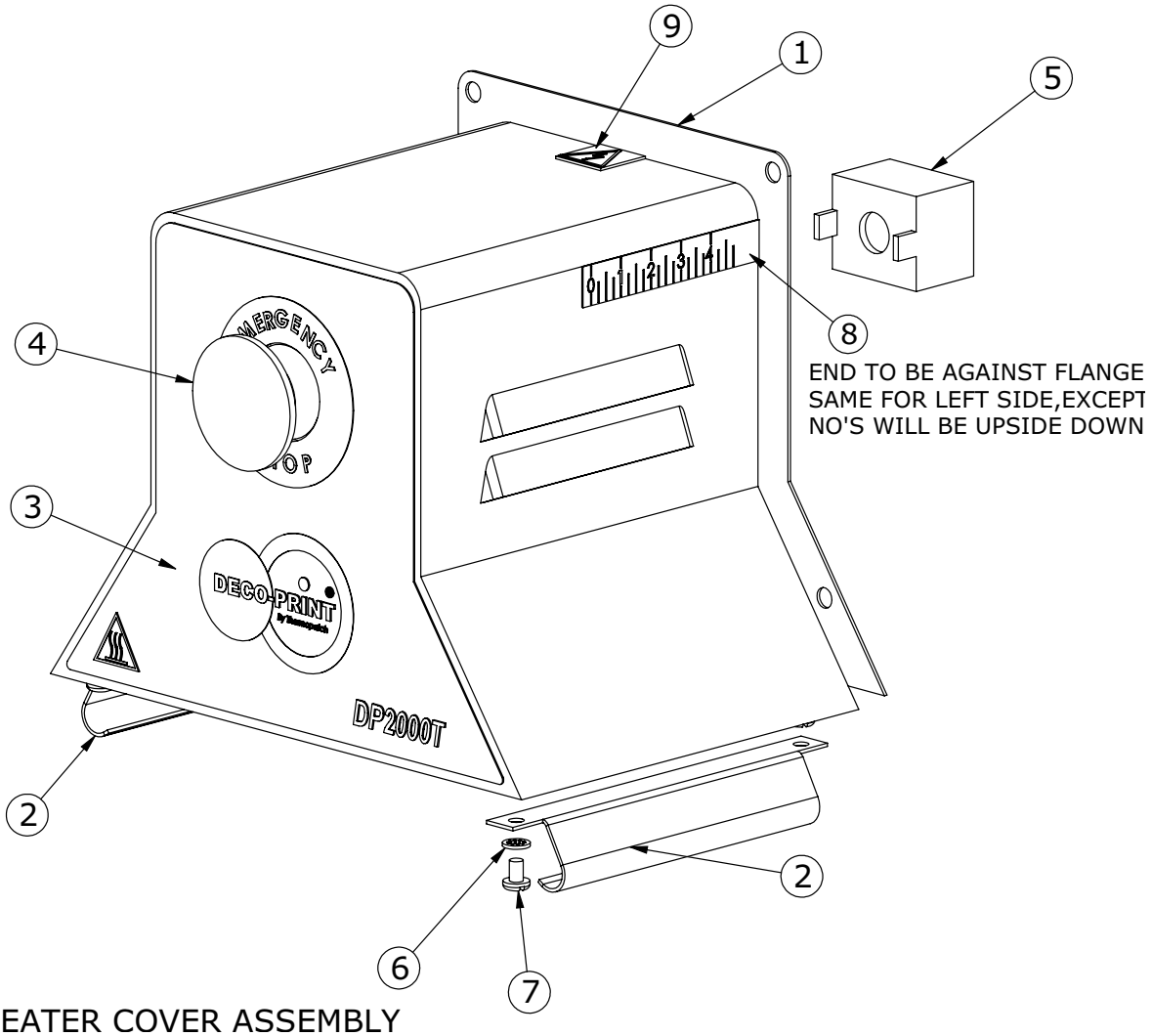
DANCER ROLL ASSEMBLY



TOUCH GUARD ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	45609	GUARD/SWITCH BRKT, R.H.	1
2	45610	GUARD/SWITCH BRKT, L.H.	1
3	46053	SPRING BRKT ASSY, R.H.	1
4	46054	SPRING BRKT ASSY, L.H.	1
5	21022-12	THRUST WASHER 3/8 I.D.X3/4O.D.X.06TK	2
6	46056	PIN, SHOULDER	2
7	21050-111	COTTER PIN 1/16 X 1/2 LG	2
8	45612	SPRING RETAINER	2
9	24075-39	SPRING, COMPRESSION	2
10	21060-04-C	BHS 4-40 X 5/16 LG	2
11	21021-04-A	L'W - INT NO. 4	6
12	45606	TOUCH GUARD WELDMENT	1
13	45605	SPACER, TOUCH GUARD INSULATOR	2
14	45604	INSULATOR, TOUCH GUARD	2
15	21063-08-K	SHCS 1/4-20 X 1.0 LG	2
16	21021-09-C	L'W - SPLIT 1/4	2
17	45657	PLATE, R.H. SWITCH MTG	1
18	45658	PLATE, L.H. SWITCH MTG	1
19	20056-23	SWITCH - MICRO	2
20	21021-05-A	L'W - INT NO. 6	4
21	21058-03-E	PHS 6 - 32 X 1/4 LG	4
22	21057-08-C	RHS 4-40 X 5/8 LG	4
23	21021-07-A	L'W - INT NO. 10	4
24	21063-03-J	SHCS - 10-32 X 3/8 LONG	4

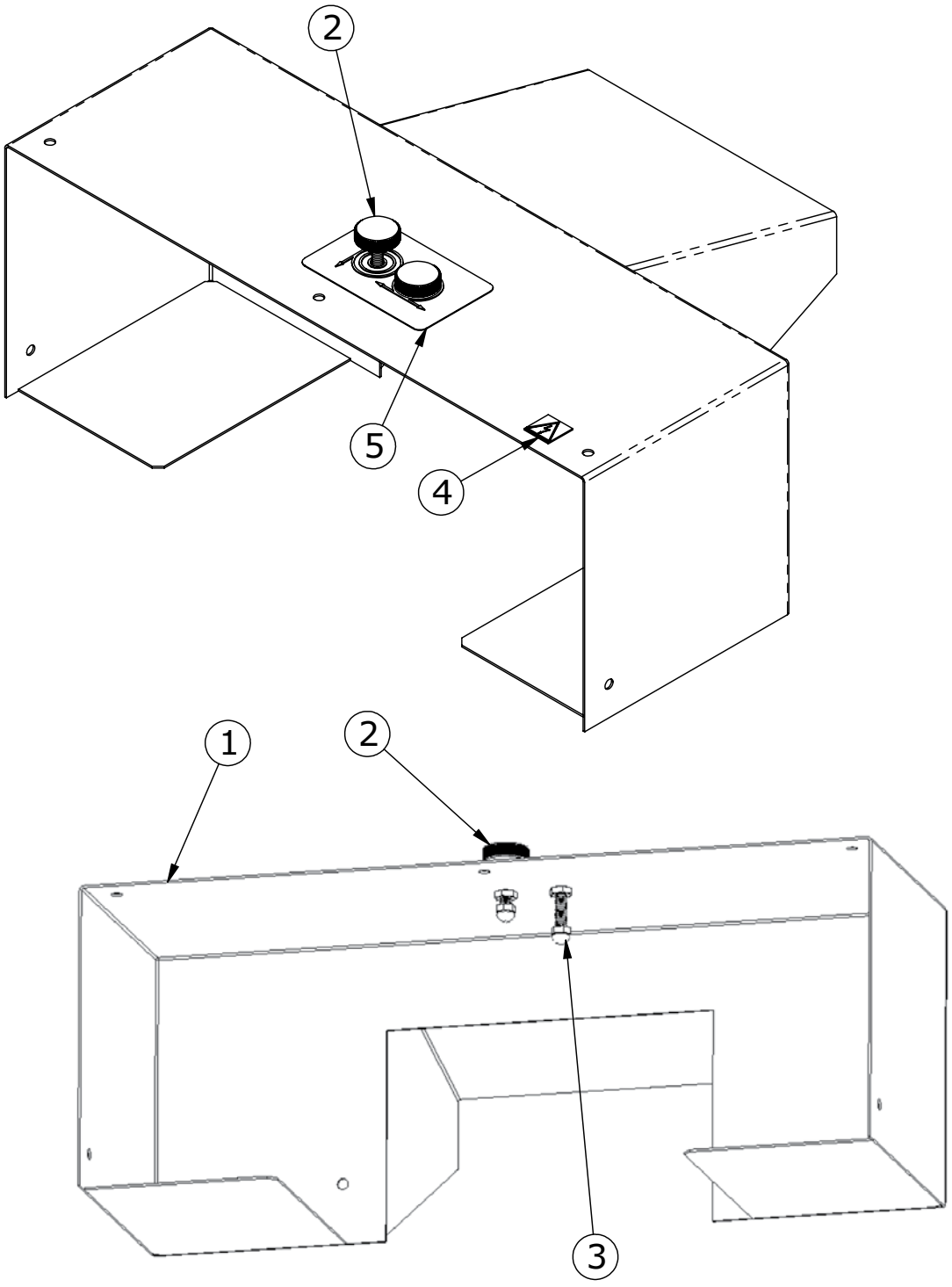
TOUCH GUARD ASSEMBLY



HEATER COVER ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46884	COVER, HEATER	1
2	45597	TAPE GUIDE	2
3	46938	LABEL, DP2000T FRONT	1
4	20055-75	STOP SWITCH ACTUATOR	1
5	20056-28	CONTACT BLOCK, E-STOP	1
6	21021-06-A	L'W - INT NO. 8	4
7	21069-03-F	PHS 8-32 X 1/4 LG SS	4
8	46880	SCALE, 4" TAPE WIDTH	2
9	45426	LABEL, HIGH VOLTAGE	1

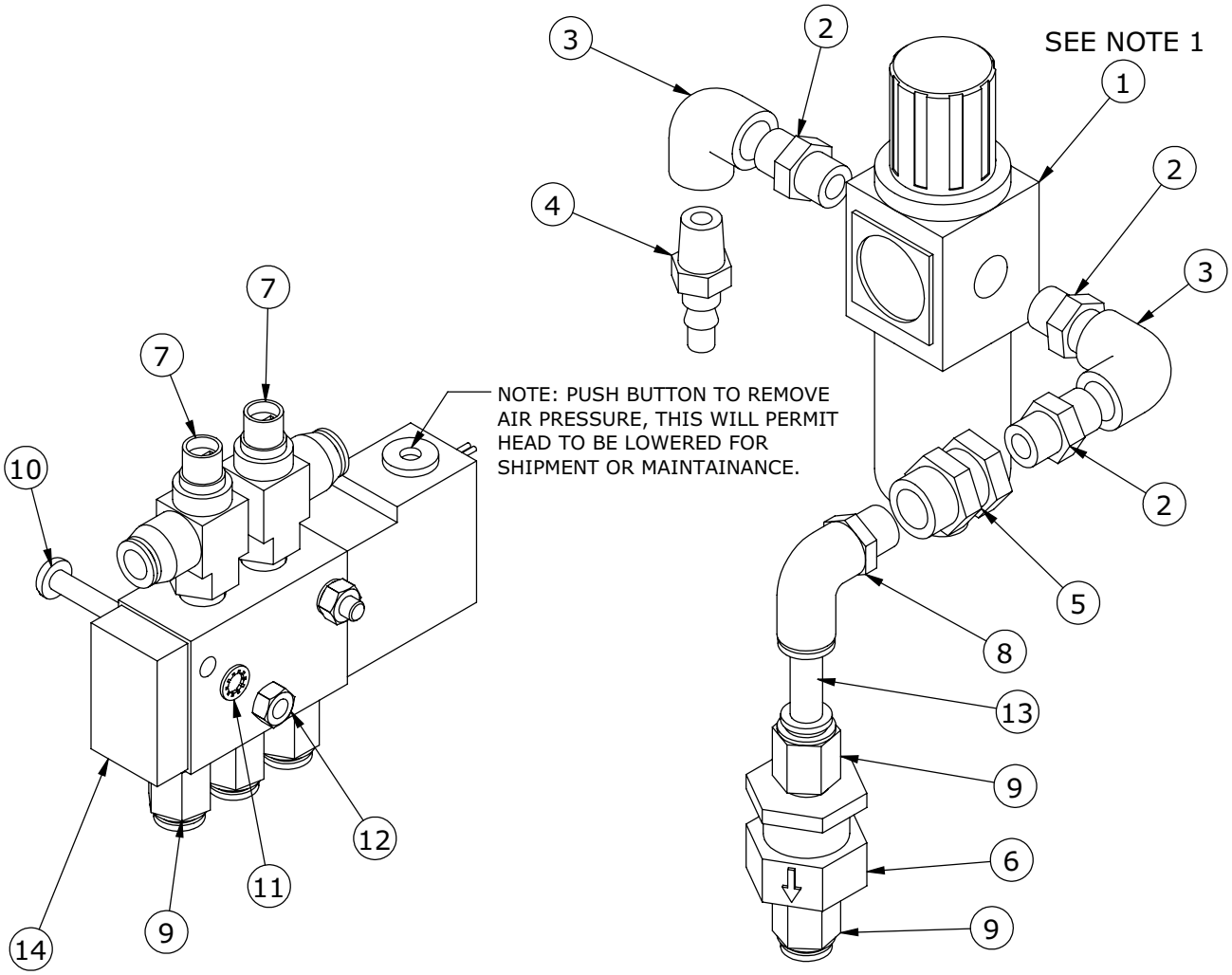
HEATER COVER ASSEMBLY



HEAD COVER ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	46883	COVER, HEAD	1
2	21029-60	THUMB SCREW, 1" DIA KN'D HD, 1/4-20 1 1/4 LG	2
3	D-7212	ACORN HEX NUT 1/4-20	2
4	45426	LABEL, HIGH VOLTAGE	1
5	46945	LABEL, LASER TARGET	1

HEAD COVER ASSEMBLY

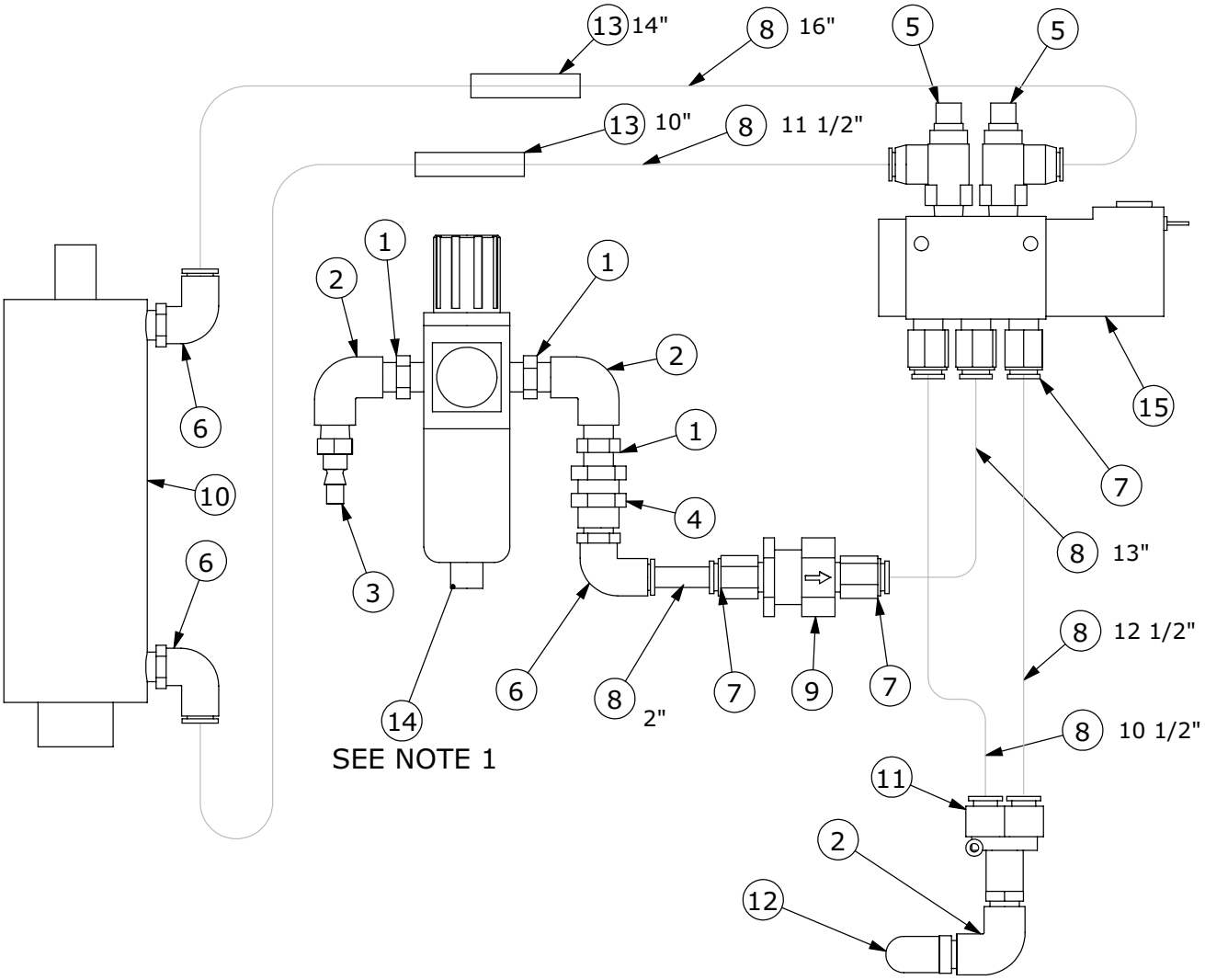


2: SEE PAGE 50 PNEUMATIC FOR COMPLETE PNEUMATIC DIAGRAM.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	22045-91	AIR REGULATOR/ FILTER/GAUGE 0-150 PSI	1
2	DH-6786	NIPPLE - HEX 1/4 MPT	3
3	DH-6761	ELBOW - 90 DEG 1/4 FPT	2
4	DH-6797	ADAPTER - MALE HOSE 1/4 MPT	1
5	22030-38	FITTING - BULKHEAD 1/4 FPT	1
6	22045-89	VALVE - IN LINE CHECK 1/4 FPT	1
7	22046-09	AIR FLOW CONTROL RT ANGLE 1/4 NPT	2
8	22015-34	ELBOW - 1/4 MPT X 3/8 TUBE	1
9	22005-45	CONN - 1/4 MPT X 3/8 TUBE	5
10	21058-15-I	PAN HEAD SCREW 1/4-20 X 1 3/4	2
11	21021-09-A	L'W - INT NO. 1/4	2
12	21051-11-A	HEX NUT 1/4 - 20	2
13	TUBE, 2.0 LONG	POLY-FLOW 3/8 O.D X 1/4 I.D.	1
14	46898	AIR SOLENOID ASSY W/CONNECTOR	1

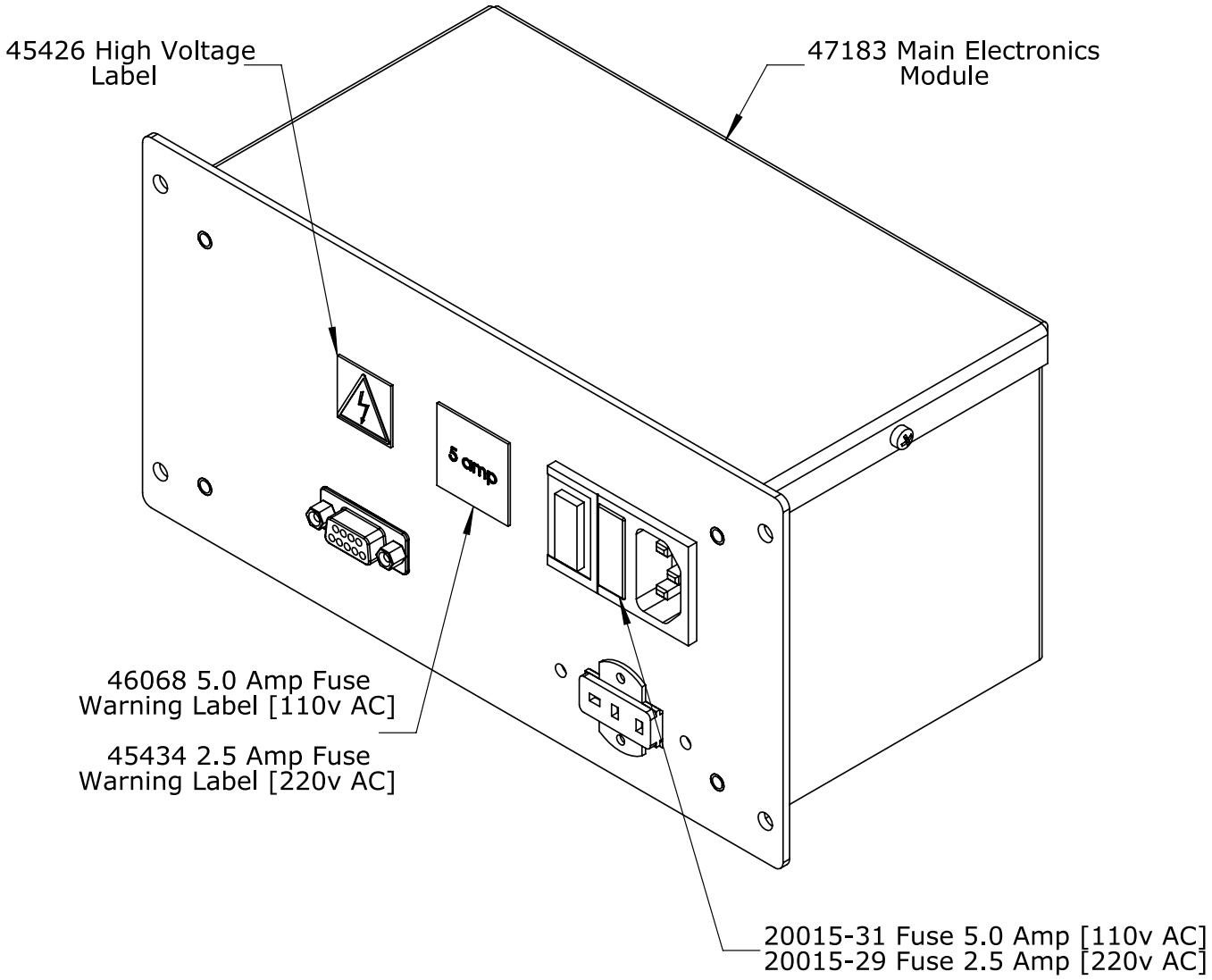
NOTE 1: FOR A 220V MACHINE, USE 22045-94 REGULATOR 0-10 BARS.

2: SEE PAGE 50 FOR COMPLETE PNEUMATIC DIAGRAM.



NOTE 1: FOR A 220V MACHINE, USE 22045-94 REGULATOR 0-10 BARS.

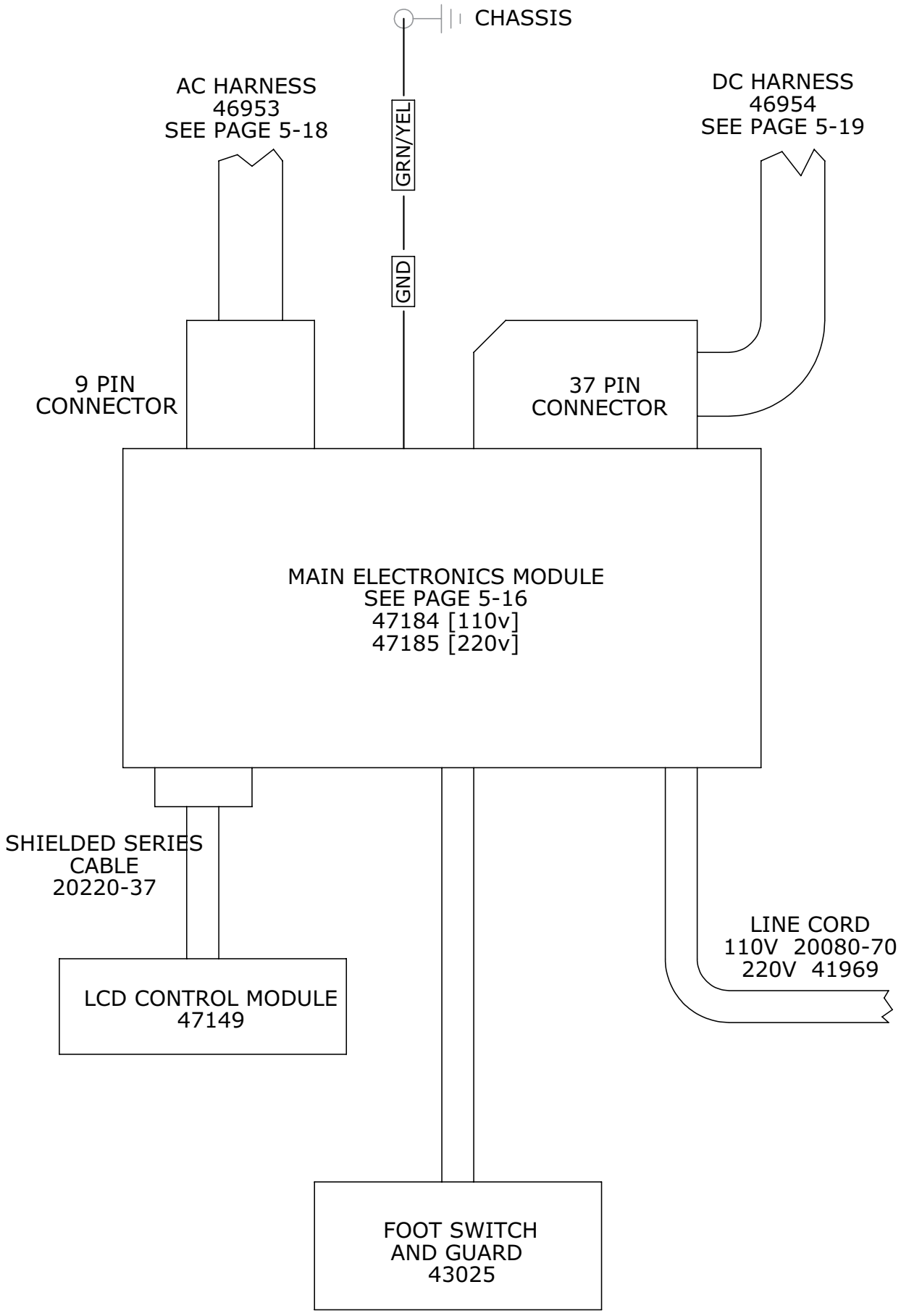
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DH-6786	NIPPLE - HEX 1/4 MPT	3
2	DH-6761	ELBOW - 90 DEG 1/4 FPT	3
3	DH-6797	ADAPTER - MALE HOSE 1/4 MPT	1
4	22030-38	FITTING - BULKHEAD 1/4 FPT	1
5	22046-09	AIR FLOW CONTROL RT ANGLE 1/4 NPT	2
6	22015-34	ELBOW - 1/4 MPT X 3/8 TUBE	3
7	22005-45	CONN - 1/4 MPT X 3/8 TUBE	5
8	22030-09	POLY-FLOW 3/8 O.D X 1/4 I.D.	65.5"
9	22045-89	VALVE - IN LINE CHECK 1/4 FPT	1
10	22010-56	AIR CYLINDER, 2 1/2 BORE 3 1/2 STROKE	1
11	22030-53	BRANCH WYE 1/4 MPT X 3/8 TUBE	1
12	22045-84	MUFFLER 1/4 MPT POREX N250	1
13	20081-57	VARGLAS SLEEVING 7/16	24"
14	22045-91	AIR FILTER/ REGULATOR & GAUGE (WILKERSON)	1
15	46898	AIR SOLENOID ASSY W/CONNECTOR	1

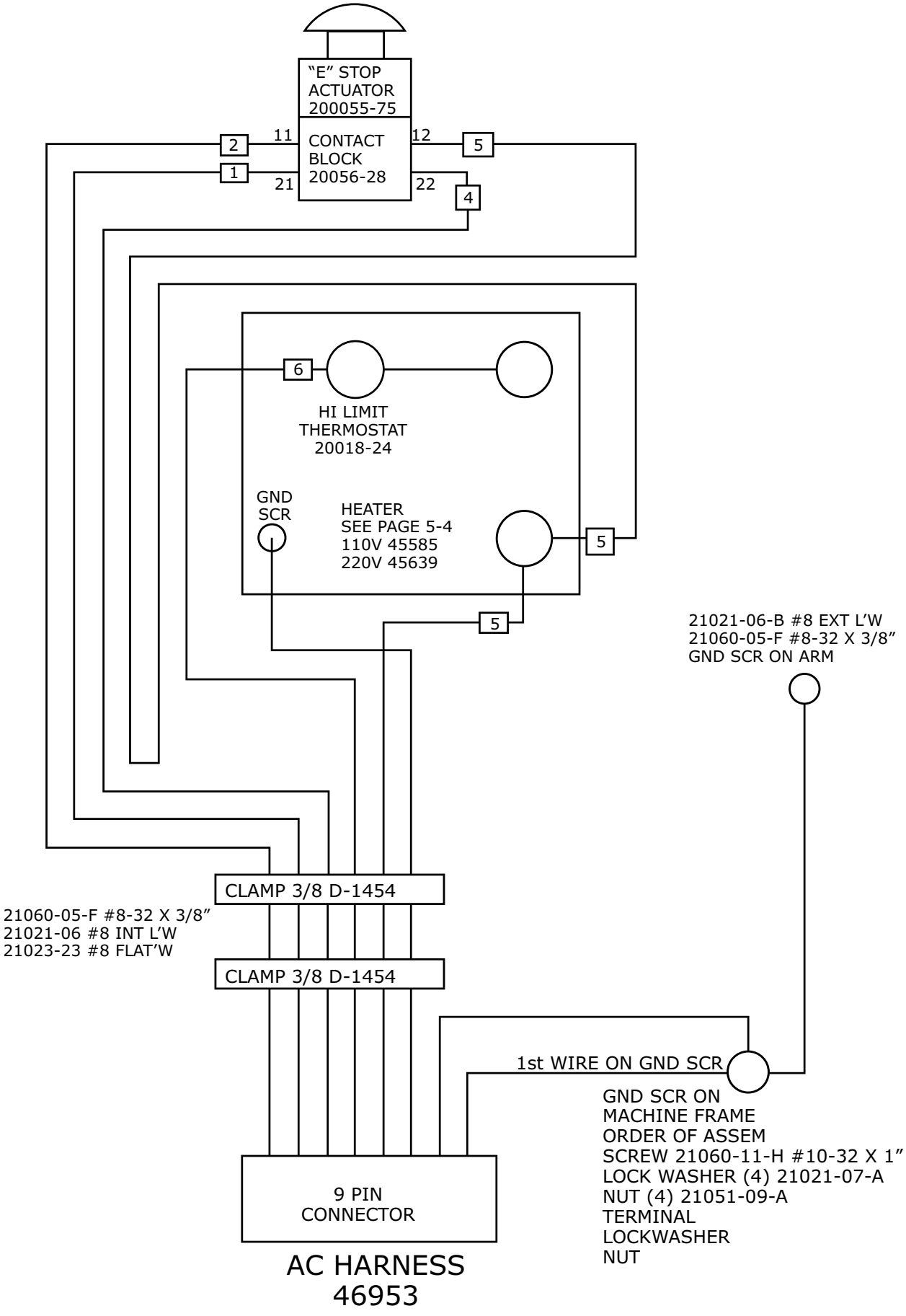


47184 110v AC
47185 220v AC

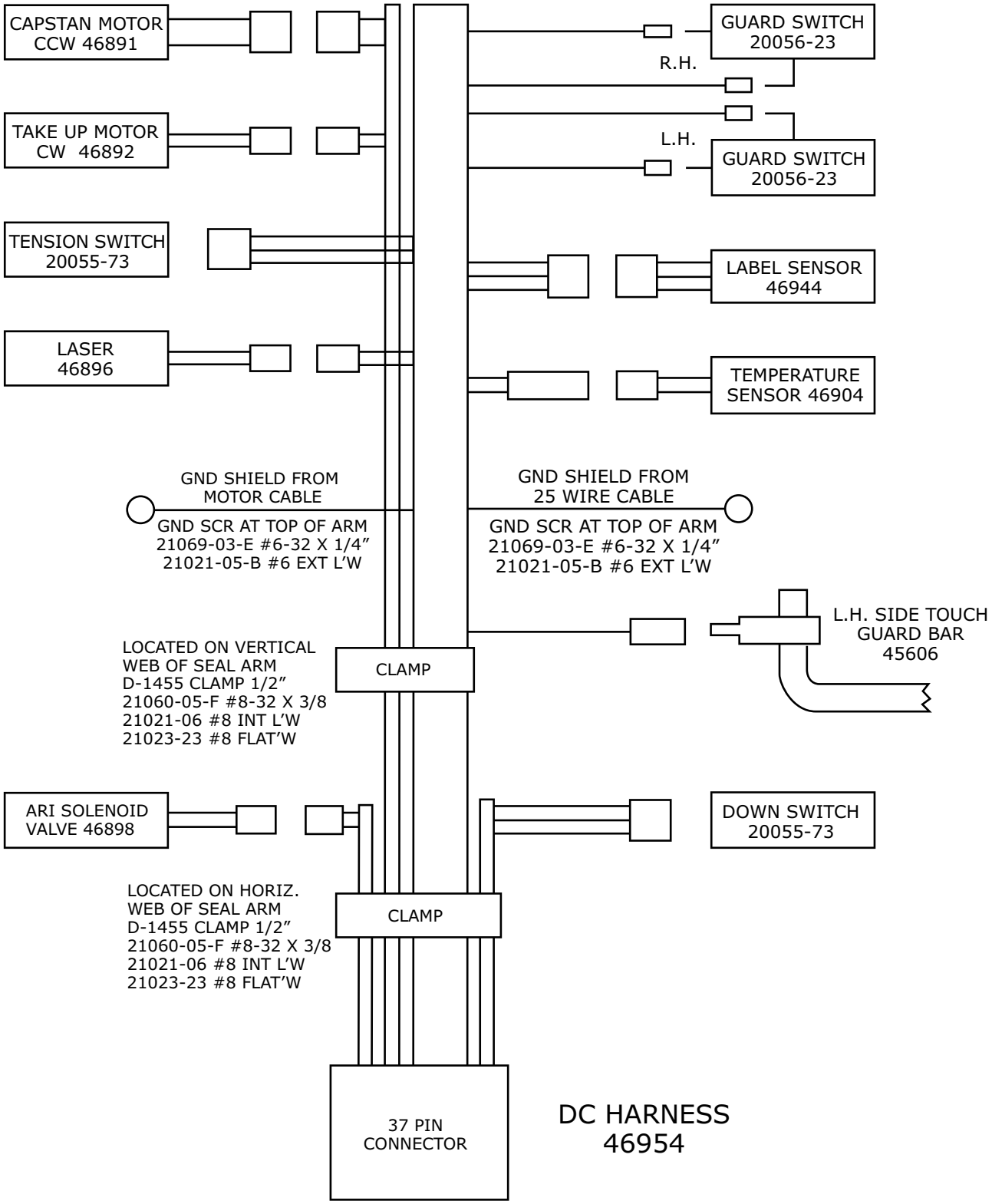
MAIN ELECTRONICS MODULE

SEE FOLLOWING PAGES FOR WIRING DIAGRAMS





AC HARNESS
46953



Section 6

MAINTENANCE

Rubber Print Platen

Clean often by wiping with a soft, clean rag. Replace the pad when it becomes worn. To replace pad, slide old pad assembly out of the lower platen, and install a new assembly.

Compressed Air Supply

Maintain a filtered air supply. Check air filter daily. Drain by pushing up on button at bottom of filter bowl.

General

Keep inside of machine free of foreign material, including lint.

Teflon/Fiberglass Shield (Used for Heat Sealing)

Clean often by wiping with a soft, clean rag. A non-flammable cleaner such as "EZ-Off", part no. DH-6873, may be used according to the manufacturer's instructions.

Never use a flammable solvent or abrasive cleaner on this surface.

Section 7

CUSTOMER SERVICE

Thermopatch Corporation's U. S. And International network of sales representatives, as well as its internal customer Service Department, offer their assistance in the development of effective heat-seal mending, marking, and identification programs.

Thermopatch markets a complete line of heat-seal and marking machine, as well as a complete line of materials and supplies.

Label Print Machines - Manual, automatic, and computer controlled.

Marking Machines - High speed permanent imprinting of decorative or informative marks on most woven fabrics.

Heat-Seal Machines - Manual, semi-automatic, and completely automatic, with high inter-platen pressure to assure excellent adhesion of label tapes and mending materials.

Label Tapes - Specially woven 100% cotton and blends with adhesives to match specific processing requirements.

Emblems - High quality blank emblems with screen print or merrowed borders.

Hot Paper Transfers - In sizes 1 to 100 square inches in rolls or cut and stacked. Custom or stock designs in one to four colors.

When ordering machine parts, please include model and serial number of the equipment.

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Syracuse, New York 13217-8007
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Fax: 315-445-8046
Toll Free: 800-252-6555
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In Canada : Thermopatch (Canada) Inc.
25 Groff Place, Unit #5
Kitchener, Ontario N2E 2L6
Phone: 519-748-5027
Fax: 519-748-1543
Toll Free: 800-265-6416
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In Australia : Thermopatch (Australia) Pty. Ltd.
477 Warrigal Road, Unit No. 9
Moorabbin, Victoria 3189
Phone: 011-61-3-9532-5722
Fax: 011-61-3-9532-5652

In the Netherlands	:	Thermopatch BV P.O. Box 50052 1305 AB Almere Netherlands Phone: 011-31-36-549-1111 Fax: 011-31-36-532-0398
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Thermopatch
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