HOBART

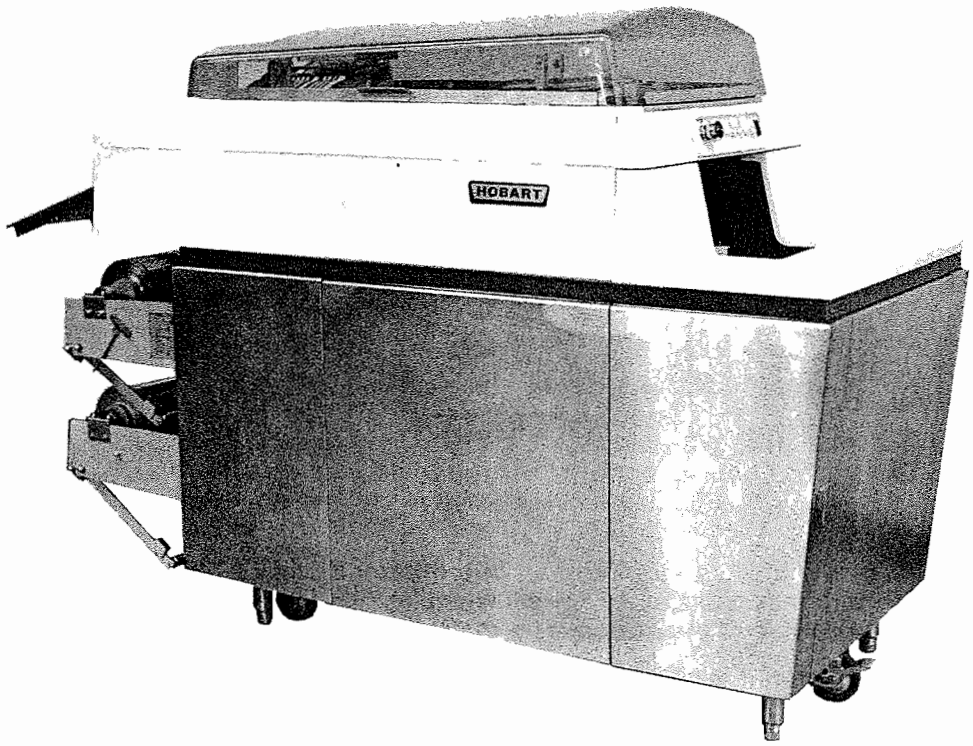
OPERATORS MANUAL

MODEL ESW ELECTRONIC STRETCH WRAPPER

A product of HOBART CORPORATION TROY, OHIO 45374

FORM 14319B (Rev. 9-83)

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MODEL ESW ELECTRONIC STRETCH WRAPPER

Save These Instructions

GENERAL

The Hobart Model ESW Electronic Stretch Wrapper is the only fully automatic stretch wrapper available today. The ESW requires the operator to merely place the package in the wrapper and push the START button. Package size is automatically sensed by the ESW, which then selects the minimum width and length of film required to properly wrap each package.

The ESW utilizes a new UltraFlex stretch principle which involves prestretching the film (lengthwise and widthwise) and is, therefore, not dependent on the package's height to stretch the film.

The ESW features a service-adjustable speed from 24 to 34 cycles per minute. It is recommended that your wrapper be set 1/2 to 1 cycle per minute slower than its companion labeler.

The ESW requires a 230 volt (3-wire), single-phase, dedicated circuit and is compatible with all major-brand stretch films available today.

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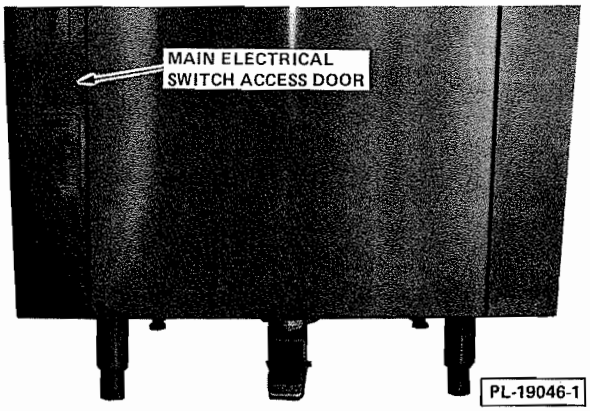


Fig. 1

OPERATION

FILM

Due to the versatility of the ESW, it requires only two different sizes of film. The film can range from a minimum of 13" wide to a maximum of 19" wide. When loading film, always place the narrow roll on the top film shaft and the wide roll on the bottom film shaft. For instructions on how to load and thread film, refer to MAINTENANCE.

PACKAGE REQUIREMENTS

Packages which can be wrapped by the ESW range in size from a number 1 tray (5" x 5") or number 17 tray (8" x 4") to a number 12 tray (12" x 9"). Tray dimensions may vary slightly from one manufacturer to another; do not attempt to wrap any package in the ESW whose dimension in the direction of machine travel exceeds 9-1/4" (see Fig. 3). Maximum package height is 5", however, all packages should be wider than they are tall. Tall narrow packages may fall on their side when moving through the machine.

All products must be packaged in a tray. Cardboard or paper backings are not acceptable.

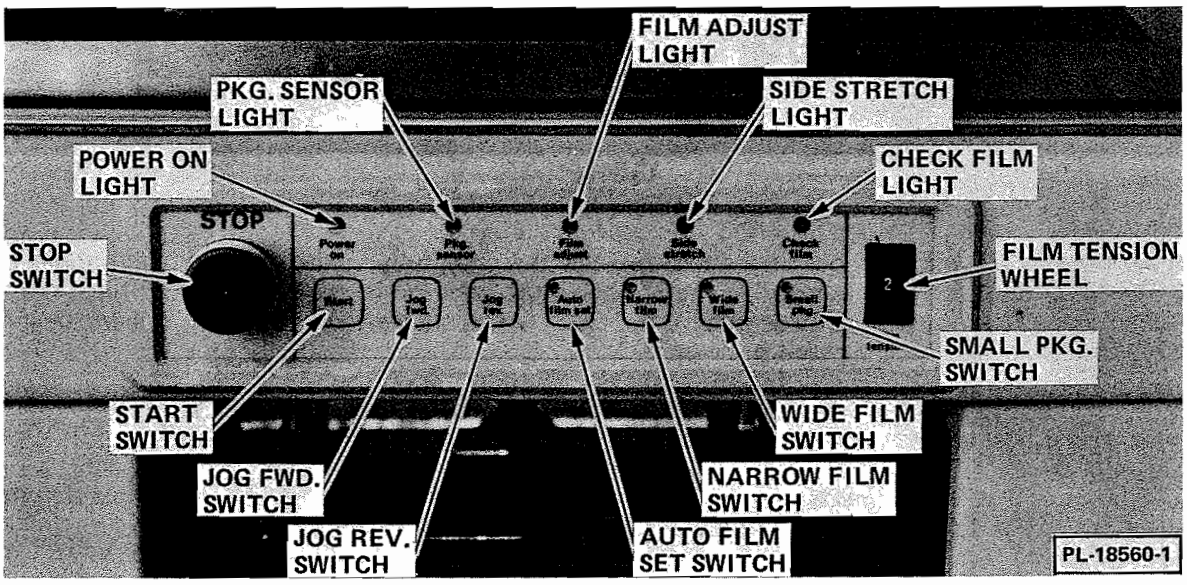


Fig. 2

CONTROLS

Operator controls include the following items.

MAIN ELECTRICAL Switch - Located behind the small access door (Fig. 1) on the operator end of the wrapper, this switch is used to control machine power.

STOP Switch - This switch (Fig. 2) stops the wrapper at any point during a cycle and resets the processor to the AUTO FILM SET mode. The STOP switch locks in position when it is pushed in. Twist the knurled ring on the switch to release it.

START Switch - This switch (Fig. 2) is used to start the ESW's cycling process.

JOG FWD. Switch - This switch (Fig. 2) moves the ESW forward through its cycle in small intervals at each touch of the switch.

JOG REV. Switch - This switch (Fig. 2) is for use in service applications only.

AUTO FILM SET Switch – This switch (Fig. 2) places the ESW in its normal (automatic) mode of operation and the ESW will automatically select the appropriate film width and length. When lit, the light on this switch indicates that the ESW is in the automatic mode.

NARROW FILM Switch – This switch (Fig. 2) places the ESW in its narrow film mode. When in this mode, the ESW will only wrap packages with the upper (narrow) roll of film. When lit, the light on this switch indicates that the ESW is in the narrow film mode.

WIDE FILM Switch - This switch (Fig. 2) places the ESW in its wide film mode. When in this mode, the ESW will wrap packages with the lower (wide) roll of film. When lit, the light on this switch indicates that the ESW is in the wide film mode.

SMALL PKG. Switch - This switch (Fig. 2) allows the number 1 or 17 tray to be run with improved appearance. When in this mode, the ESW will only wrap packages from the narrow roll with the minimum length of film regardless of package height. When lit, the light on this switch indicates that the ESW is in the small package mode.

POWER ON Light - This light (Fig. 2) indicates that power to the ESW is on.

CHECK FILM Light - This light (Fig. 2) indicates that either the film supply is depleted or for some other reason the gripper was unable to pull film for wrapping.

PKG. SENSOR Light - This light (Fig. 2) indicates that the package has been sensed and is in position to be wrapped. This is a sequence light and will flash momentarily as each package is wrapped.

FILM ADJUST Light - This light (Fig. 2) indicates that the ESW is automatically adjusting the film length for the package being wrapped. This is a sequence light and will flash momentarily each time the ESW selects a different length of film.

SIDE STRETCH Light - This light (Fig. 2) indicates that the ESW is uniformly stretching the film to suit the package being wrapped. This is a sequence light and will flash momentarily as each package is wrapped.

FILM TENSION Wheel - This wheel (Fig. 2) provides a means of controlling the wrapping tension. Eight positions allow the operator to select the correct tension for optimum package appearance.

WRAPPING

Before beginning operation, set the heat sealer belt thermostat and allow 10-15 minutes for the belt to warm up. The thermostat should be set high enough to seal properly without burning the film. Normally a

setting of approximately 350° will be adequate, however, the optimum setting will depend on local conditions (room temperature, humidity, etc.).

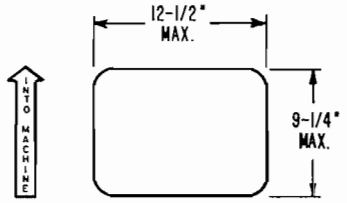
WARNING: THE HEAT SEALER BELT IS EXTREMELY HOT, DO NOT TOUCH.

Prior to wrapping packages, check the setting of the FILM TENSION wheel. There are eight settings available (0 through 7). Most packages can be attractively wrapped at a setting of 3 or 4. The lower settings are intended for packages with sharp bones (or similar objects) which can puncture tightly stretched film. The higher settings will result in more tightly wrapped packages.

To begin wrapping, open the access door and turn on the MAIN ELECTRICAL switch. Place the first package on the intake platter approximately 2" in and centered side-to-side. Rectangular packages must be positioned so that the long side is parallel to the control panel (see Fig. 3).

RECTANGULAR PACKAGES MUST BE WRAPPED LONG SIDE FIRST

POSITION TRAYS # 2, 4, 5, 8, 9, 10, 12, 13, 16, 17 & 20



PL-19051 NEITHER SIDE MAY EXCEED DIMENSIONS SHOWN

Fig. 3

With the first package on the intake platter, press the START switch to start the ESW and continue feeding packages.

SPECIAL MODES

There are several different modes of operation available on the ESW which are accessible by touching the appropriate switch on the control panel.

Auto Film Set

This is the normal operating mode in which the ESW automatically selects the proper length and width of film required to wrap each package. The AUTO FILM SET switch only needs to be used when changing back to automatic film selection from one of the other modes of operation; the ESW will automatically select this mode anytime it is turned on or whenever the STOP switch is pressed.

Narrow Film

This mode, which is accessible by touching the NARROW FILM switch, is used when it would be advantageous to wrap all packages from the narrow roll of film. For example, when wrapping intermediate sized packages, such as number 4 trays, the ESW may switch back and forth from narrow to wide film, depending on package height. Touching the NARROW FILM switch will prevent this switching and may result in more tightly wrapped packages. Additionally, if, during peak operating periods, the wide roll of film becomes depleted, pressing the NARROW FILM switch will prevent repeated shutdowns, which would otherwise occur when the ESW selected wide film.

The ESW will remain in this mode until it is turned off, the STOP switch is pressed, or another mode is selected.

Wide Film

This mode, accessible by touching the WIDE FILM switch, is used whenever it would be advantageous to wrap packages from the wide roll of film or when the narrow film becomes depleted and it is not convenient to change it immediately.

The ESW will remain in this mode until it is turned off, the STOP switch is pressed, or another mode is selected.

Small Pkg.

This mode, accessible by touching the SMALL PKG. switch, is intended for use when wrapping number 1 or number 17 trays. The ESW will use the minimum length and width of film regardless of package height and will wrap these packages slightly tighter than it would automatically.

The ESW will remain in this mode until it is turned off, the STOP switch is pressed, or another mode is selected.

CONTROLLED SHUTDOWNS

The ESW features an automatic shut-off after six idle cycles (six cycles during which no packages are wrapped). This feature prolongs machine life, as well as conserves energy, and merely requires the operator to touch the START switch to resume wrapping.

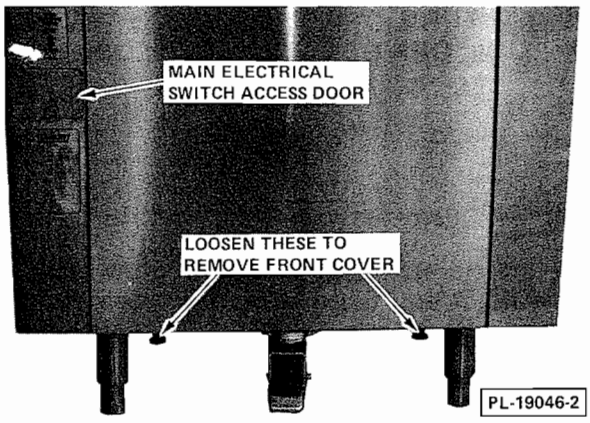


Fig. 4

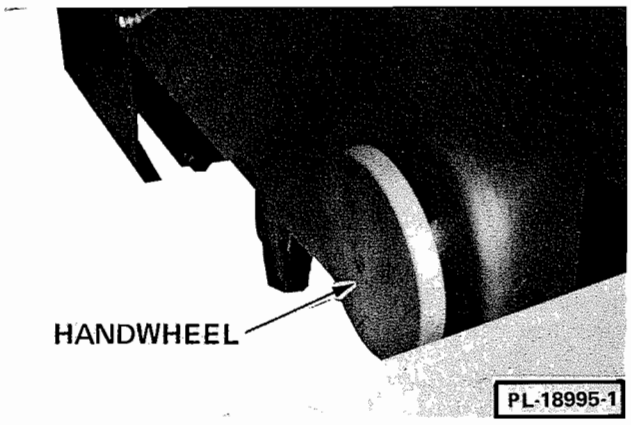


Fig. 5

The ESW has an Anti-Jam Mechanism, which senses abnormal conditions or mechanical binds and automatically shuts down the machine. **WARNING: OPEN THE ACCESS DOOR (Fig. 4) AND TURN OFF THE MAIN ELECTRICAL SWITCH BEFORE ATTEMPTING TO RELEASE PACKAGE JAMS.** To release the jam, turn the handwheel (Fig. 5) counterclockwise until the package is free, lift the canopy, remove the package hold down assembly (Fig. 6), and remove the package. DO NOT use the JOG FORWARD switch to clear jams, this will only worsen the situation.

The ESW will shut down and the CHECK FILM light will come on when either roll of film is depleted. This prevents packages from going through the machine without getting wrapped. To resume operation, press the STOP switch and reload the film. Refer to MAINTENANCE for instructions.

The ESW will shut down if an oversized package is placed in the machine. Lift the canopy and remove the package. Resume wrapping by touching the START switch.

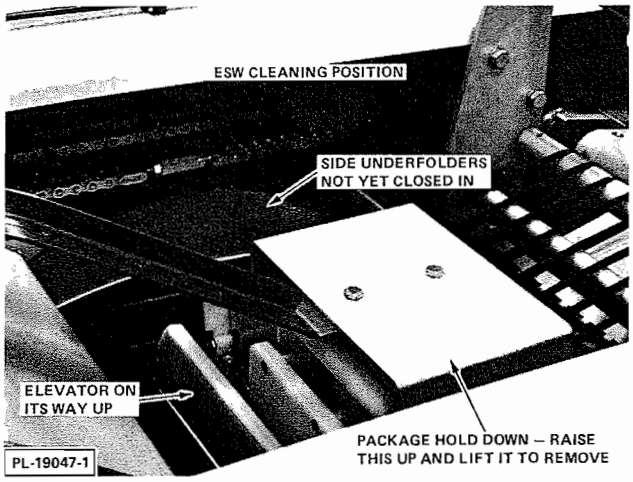


Fig. 6

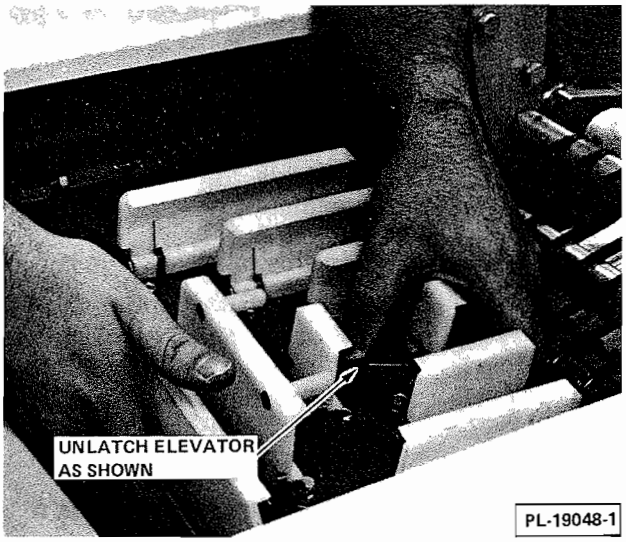


Fig. 7

CLEANING

Prior to cleaning the ESW, use the JOG FWD. switch and jog the machine until the elevator is on its way up but stop it before the side underfolders close in (see Fig. 6). This is the proper cleaning position.

WARNING: OPEN THE ACCESS DOOR (Fig. 4) AND TURN TURN OFF THE MAIN ELECTRICAL SWITCH AND ALLOW THE HEAT SEALER BELT TO COOL OFF BEFORE PROCEEDING WITH CLEANING.

The ESW should be cleaned with a mild detergent (dishsoap) solution and a clean cloth. A long-handled brush will make cleaning inside the machine easier.

Lift open and prop the canopy. Remove the lower front cover by loosening the two thumb screws (Fig. 4).

Remove the package hold down assembly (Fig. 6). Remove the elevator (Fig. 7) by lifting the latch and sliding the unit toward the operator end of the wrapper; then lift it out. Clean both the elevator and hold down assembly.

Clean the side clamp pads (Fig. 8), as well as the gripper pads (Fig. 9). Clean the interior of the machine; a long-handled brush will help to remove debris and to reach areas of limited access.

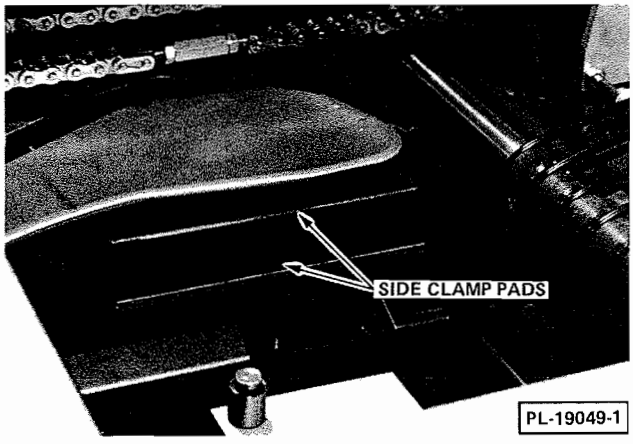


Fig. 8



Fig. 9



Fig. 10

Remove the film rolls and clean the motor sanitation cover (Fig. 10). Also wipe off the film guide rollers. Replace the film rolls. Clean off the exterior of the machine. If desired, the canopy may be removed from the machine for cleaning.

For a more thorough cleaning, occasionally remove the side panels by loosening the thumb screws that secure them for better access to the machine interior.

MAINTENANCE

RELOADING FILM

When either roll of film is depleted, the CHECK FILM light will come on and the machine will stop in the film loading position. AFTER the machine stops automatically, press the STOP switch to reset the processor. **WARNING: OPEN THE ACCESS DOOR AND TURN OFF THE MAIN ELECTRICAL SWITCH (Fig. 11). THE SEALER BELT WILL REMAIN HOT, DO NOT TOUCH WHILE CHANGING FILM.**

Lift the canopy and remove any packages from the machine.

Raise the sealer belt to its locked position using the handle (Fig. 12).

If you are replacing the wide film roll, it is necessary to release the narrow film from the film guide. Raise the film clamp handles (Fig. 13) and push them toward the center and down; then remove the film.

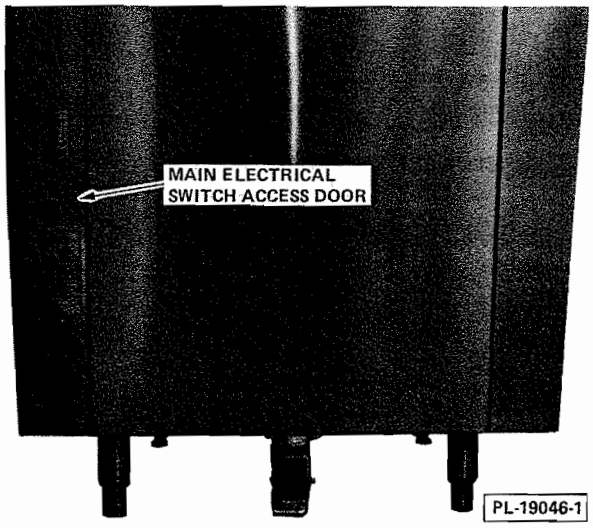


Fig. 11

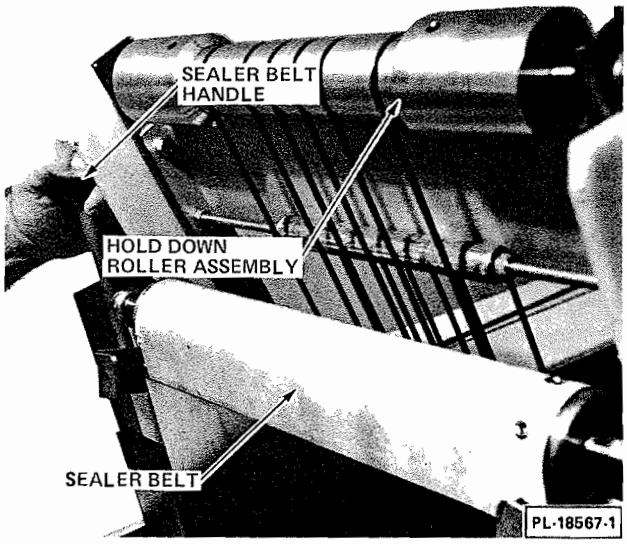


Fig. 12

Remove the film shaft (with empty roll) from the machine.

Using the T-handle Allen wrench provided, loosen the set screw and remove the collar (Fig. 14) from the left side of the film roll as you face the film end of the machine. Remove the old film core.

With the brake collar (Fig. 14) on the proper (right-hand) side, place the new roll of film on the shaft so that the film will unroll from the top of the roll toward the machine.

Carefully stand the roll on its end and replace the previously removed collar (Fig. 15). Press the triangular collar into the film core and tighten the set screw.

Set the roll of film on the shaft rollers and brake so that the film unrolls from the top (toward the machine). The narrow roll of film goes on the top and the wide roll goes on the bottom. Route the film around the rollers as shown on the threading diagram (Fig. 16).

Check to assure that the end of the film roll lines up with the number on the dimension chart (Fig. 17) which corresponds with the film width (i.e., a 13" roll of film lines up with the number 13, etc.). If this is not the case, loosen the set screw in each of the two collars (Fig. 17), slide the film roll and collars to the proper position, and tighten the set screws. DO NOT loosen or move the brake collar (Fig. 17).

Open the film clamp handles on the film guides. To open the narrow film clamp, raise the handles and then push them toward the center and down. The wide film clamp handles are opened by pushing them down and toward the center (Fig. 13). Remove any film left in the guides.

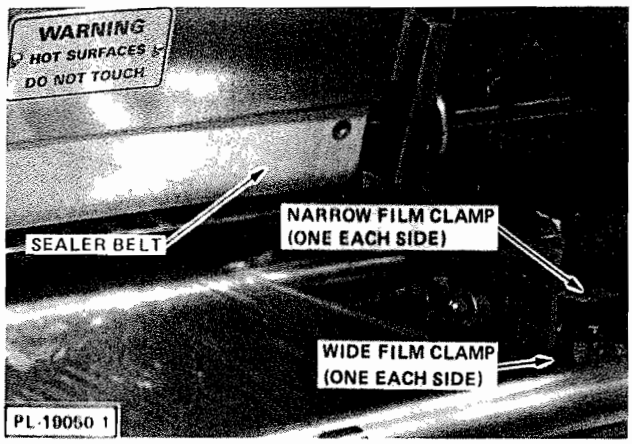


Fig. 13

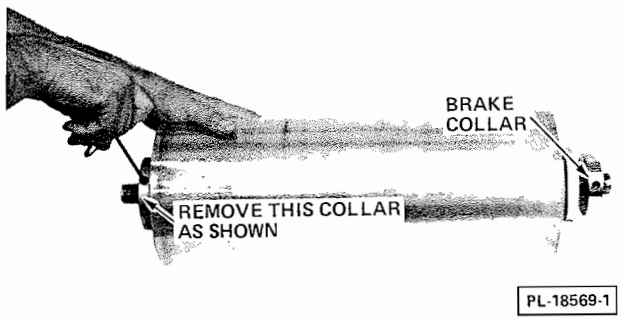


Fig. 14

Keep film centered on the rollers and spread as wide as possible when placing it in the film guide. Fold two or three inches of film at the end to form a double layer.

Slide the film into the film guide, making sure to cover the finger grips on both sides of the guide (Fig. 18). The narrow film goes in the upper guide and the wide film goes in the lower guide. Close the film clamps.

Lift the hold down roller assembly (Fig. 12) to release the sealer belt and lower both into operating position. Turn each roll of film backwards until the dancing roller (Fig. 17) is lifted by the film.

Turn on power to the ESW and wrap several packages from each film roll to assure proper operation.

MOTOR

The ESW is equipped with a manual-reset overload protection switch. Should the motor overheat and trip this switch (which stops the machine), open the access door and **TURN OFF THE MAIN ELECTRICAL**

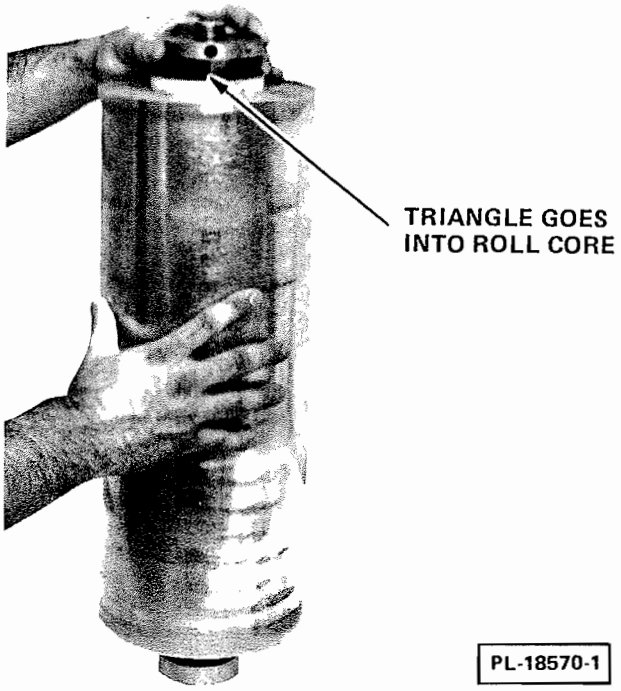


Fig. 15

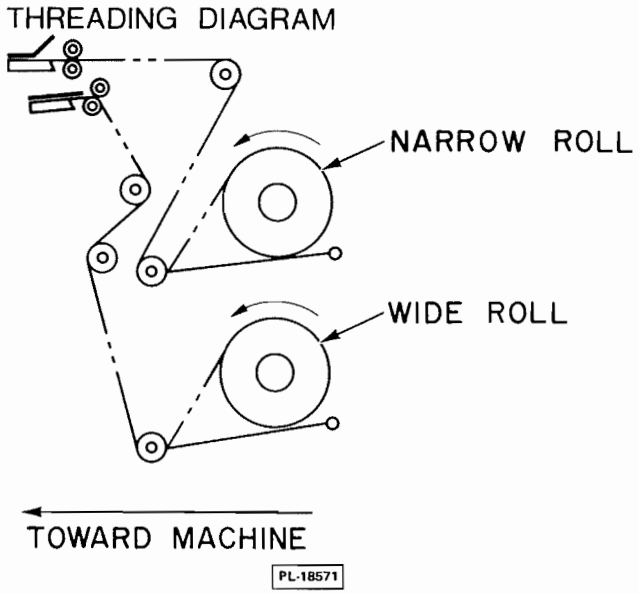


Fig. 16

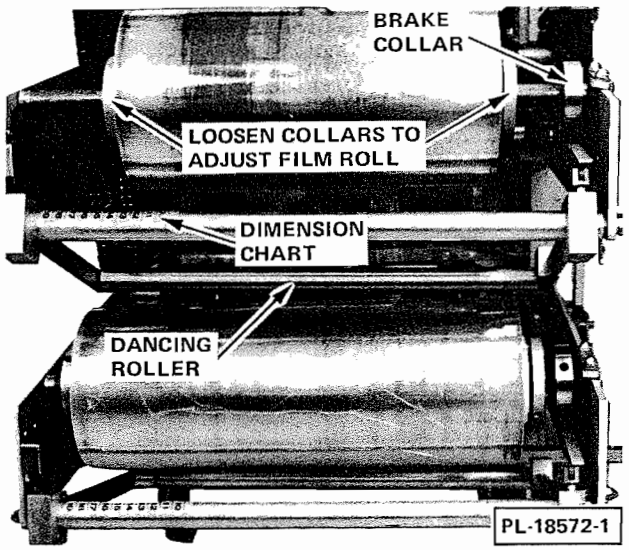


Fig. 17

SWITCH, and allow the motor to cool for several minutes. To reset the switch, remove the left (when facing the operator end) side panel by loosening the two thumb screws and push the red button (Fig. 19) on the end of the motor.

If the protection switch persists in tripping, contact your local Hobart Service Office.

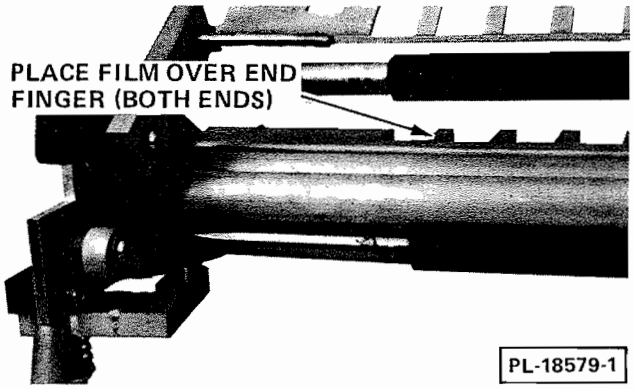


Fig. 18

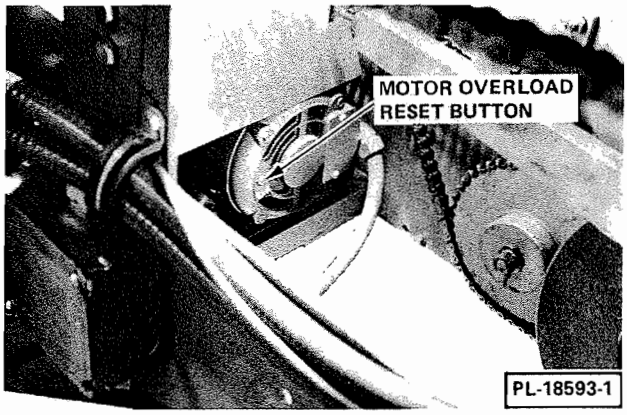


Fig. 19