



## Instructions and Parts List

# 3M-Matic™

## P/N 78-8079-5560-0

# Tape Application

# Sensor Kit

Type 19300

(Low Tape/No Tape/Tape Run-On)

**Note:** To use this kit with 3-Inch AccuGlide™ STD, AccuGlide™ II STD or HST Taping Heads, a 3-Inch Adapter Kit P/N 78-8079-5586-5 must be purchased separately.

Serial No. \_\_\_\_\_

For reference, record machine serial number here.

**3M Packaging Systems Division**

3M Center, Building 220-8W-01  
St. Paul, MN 55144-1000



## Important Safety Information

Read "Important Safeguards" page 2  
BEFORE INSTALLING  
OR OPERATING THIS  
EQUIPMENT.

## Spare Parts

It is recommended you immediately order the spare parts listed on page 37. These parts are expected to wear through normal use and should be kept on hand to minimize production delays.

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Litho in U.S.A.

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# Replacement Parts and Service Information

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## To Our Customers:

This is the 3M-Matic™/AccuGlide™/Scotch™ brand equipment you ordered. It has been set up and tested in the factory with "Scotch" brand tapes. If technical assistance or replacement parts are needed, call or Fax the appropriate number listed below.

Included with each machine is an Instructions and Parts List manual.

### Technical Assistance:

3M-Matic™ Helpline – 1-800/328 1390. Please provide the customer support coordinator with the machine number, machine type/model and serial number. If you have a technical question that does not require an immediate response, you may Fax it to 715/381 0248.

### Replacement Parts and Additional Manuals

Order parts by part number, part description and quantity required. Also, when ordering parts and/or additional manuals, include machine name, number and type. A parts order form is provided at the back of this manual.

#### **3M/Tape Dispenser Parts**

**241 Venture Drive**

**Amery, WI 54001-1325**

**1-800/344 9883**

**FAX# 715/268 8153**

**Minimum billing on parts orders will be \$25.00. Replacement part prices available on request.**

**\$10.00 restocking charge per invoice on returned parts.**

Note : Outside the U.S., contact the local 3M subsidiary for parts ordering information.



#### **3M Packaging Systems Division**

3M Center, Building 220-8W-01  
St. Paul, MN 55144-1000

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# Replacement Parts And Service Information

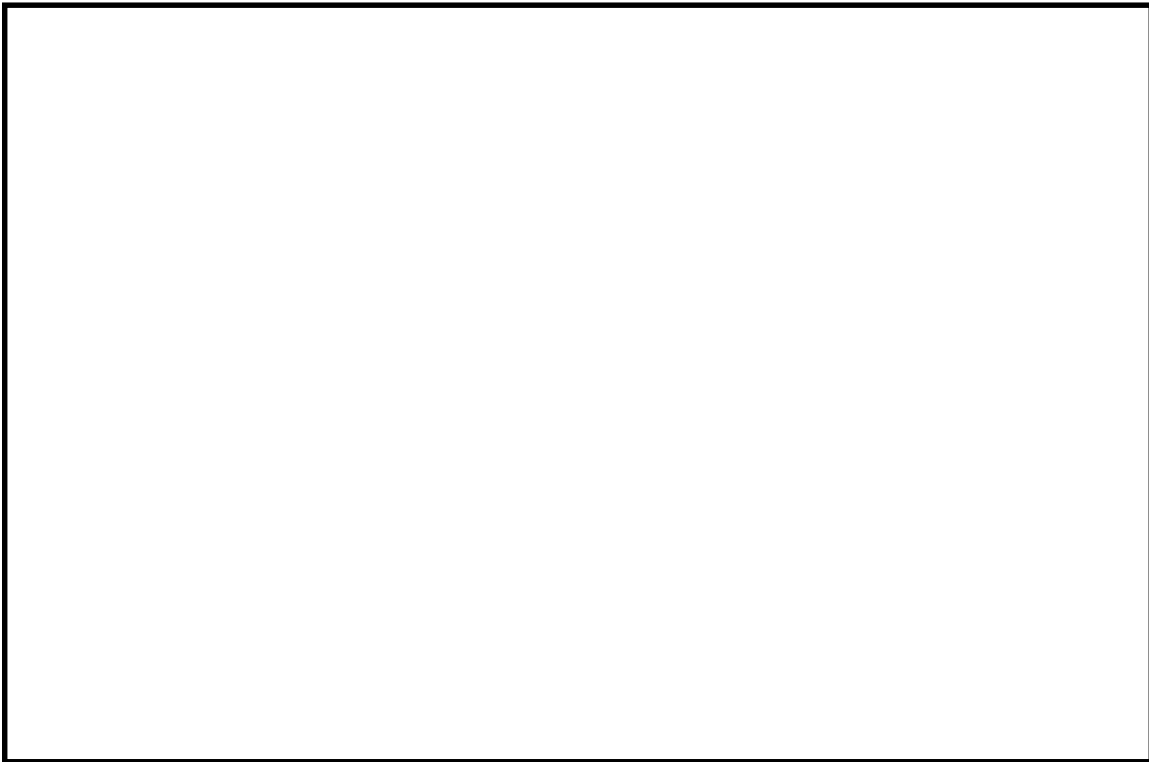
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## To Our Customers:

This is the 3M-Matic™/AccuGlide™/Scotch™ brand equipment you ordered. It has been set up and tested in the factory with "Scotch" brand tapes. If any problems occur when operating this equipment, and you desire a service call, or phone consultation, call, write or Fax the appropriate number listed below.

Included with each machine is an Instructions and Parts List manual.

**SERVICE, REPLACEMENT PARTS AND ADDITIONAL MANUALS  
AVAILABLE DIRECT FROM:**



Order parts by part number, part description and quantity required. Also, when ordering parts and/or additional manuals, include machine name, number and type.



### 3M Packaging Systems Division

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1-800/328 1390

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# Instruction Manual

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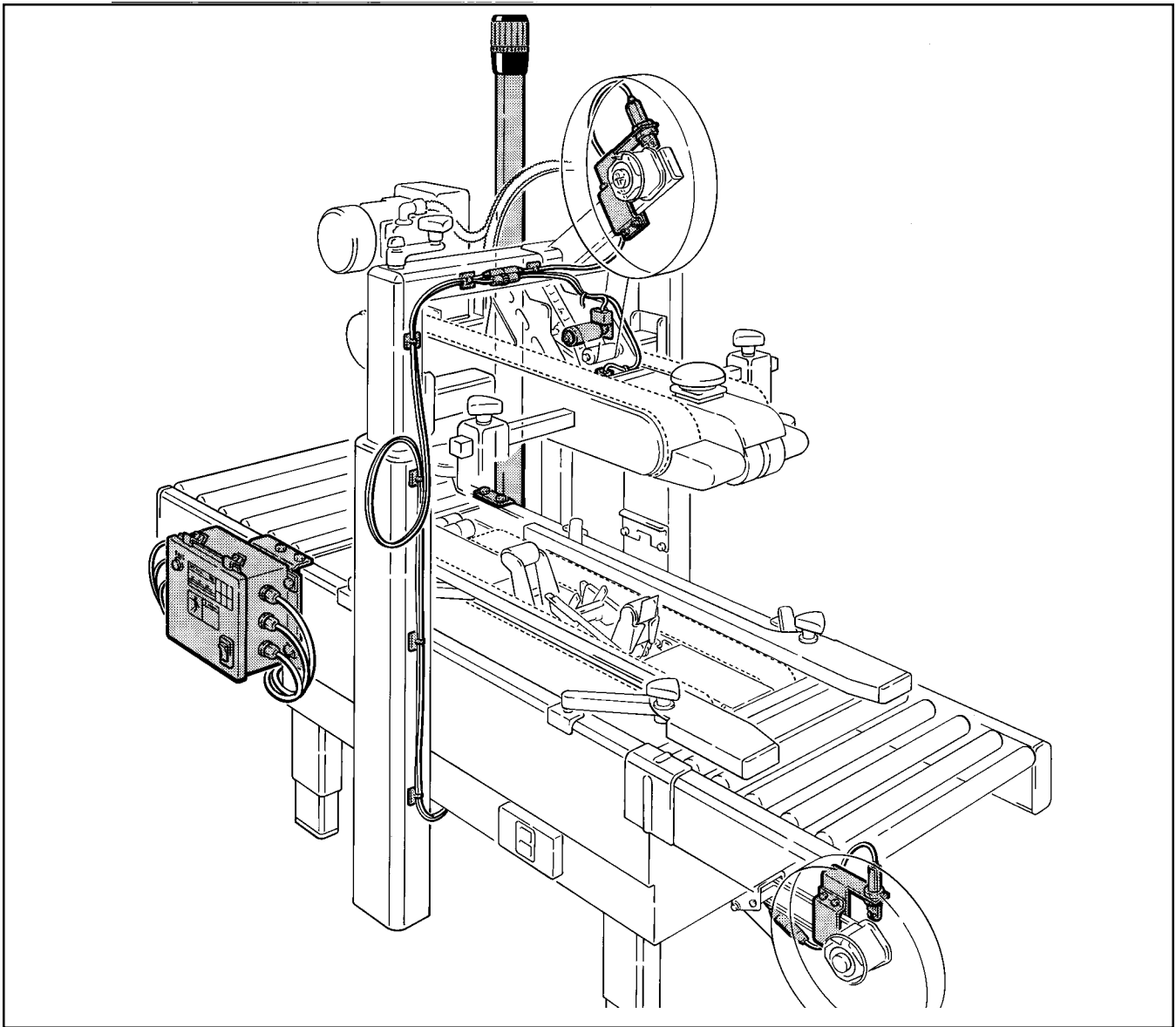
**Equipment Warranty and Limited Remedy: THE FOLLOWING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, A CUSTOM OR USAGE OF TRADE:**

3M warrants that its **3M-Matic™ P/N 78-8079-5560-0 Tape Application Sensor Kit, Type 19300** will be free from defects for ninety (90) days after delivery. If any part is proved to be defective within the warranty period, then the exclusive remedy and 3M's and seller's sole obligation shall be, at 3M's option, to repair or replace the part, provided the defective part is returned immediately to 3M's factory or an authorized service station designated by 3M. A part will be presumed to have become defective after the warranty period unless the part is received or 3M is notified of the problem no later than five (5) calendar days after the warranty period. If 3M is unable to repair or replace the part within a reasonable time, then 3M, at its option, will replace the equipment or refund the purchase price. 3M shall have no obligation to provide or pay for the labor required to install the repaired or replacement part. 3M shall have no obligation to repair or replace (1) those parts failing due to operator misuse, carelessness, or due to any accidental cause other than equipment failure, or (2) parts failing due to non-lubrication, inadequate cleaning, improper operating environment, improper utilities or operator error.

**Limitation of Liability:** 3M and seller shall not be liable for direct, indirect, special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

The foregoing Equipment Warranty and Limited Remedy and Limitation of Liability may be changed only by a written agreement signed by authorized officers of 3M and seller.

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**Typical Installation of Tape Application Sensor Kit on 3M-Matic™ Case Sealer**

## **Description**

The **Tape Application Sensor Kit** is a self-contained control apparatus that identifies a tape related malfunction in case sealing operations. This device will reduce downtime in production environments.

Conveniently attached to the case sealer, the control module continually monitors case sealing operations. The control module pulses a warning/fault beacon when a low tape condition occurs and will flash the beacon while stopping the case sealer when a tape related malfunction occurs.

Equipped with Hall effect tape and box sensors, the unit reliably detects the following malfunctions:

- No tape available
- Tape has broken or failed to cut off
- Tape is jammed in the taping head mechanism
- Tape did not apply to box

The **Tape Application Sensor Kit** is designed to work with case sealing equipment that operates in the range of 65 to 125 feet per minute, continuous line motion.



## Important Safeguards

The electrical "**Danger**" label, shown in **Figure 1-1**, is attached to the front of the control module. The label warns service personnel to disconnect the power supply before performing any service work on the control module.

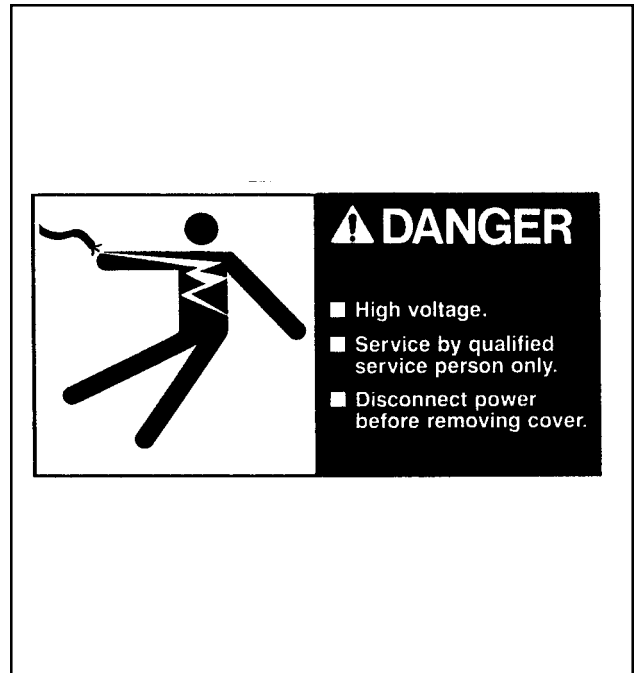


Figure 1-1 – Electrical "Danger" Label

The electrical "**Caution**" label shown in **Figure 1-2**, is located inside the control module. The label warns service personnel to replace fuse with the same type and rating for continued fire and equipment protection.

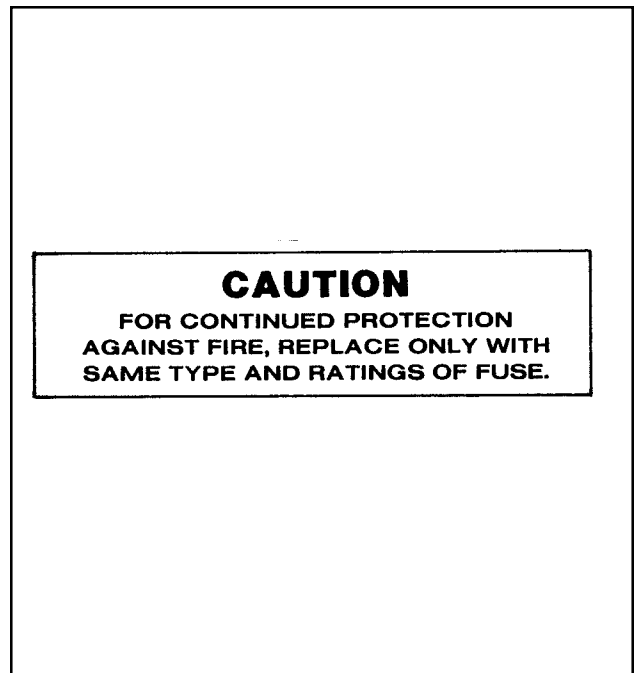


Figure 1-2 – Electrical "Caution" Label



**THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. READ AND UNDERSTAND THEM BEFORE INSTALLING OR OPERATING THIS EQUIPMENT.**

# Contents of Tape Application Sensor Kit

- |  |  |
|--|--|
| (1) Control Module                     | (2) Photoelectric Sensor   |
| (2) Mounting Brackets                  | (2) Mounting Bracket – Photoelectric Sensor                              |
| (2) Magnetized Tension Roller          | (1) Warning/Fault Beacon W/Post  |
| (2) Dual Sensor Sub-Assembly (Y Cable) | (1) Bag of Mounting Hardware, Shims, Template,<br>Shafts, Bushings, Etc. |
| (2) AccuGlide™ Magnet Holder Assembly  |  |
| (2) HST Magnet Holder Assembly         |  |

## Specifications

Compatible with the following 3M-Matic™ taping heads:  
AccuGlide™ STD, AccuGlide™ II STD and AccuGlide™ HST

**Note:** For use with continuous, non-interrupted lines only.

Designed to UL, VDE and NEC anticipated standards and requirements.

### Power Requirements:

115 VAC, 50/60 Hz, 1 Ph

Control module plugs directly into NEMA 5-15R, 3 pin, 115 VAC outlet via 10 foot [3 m] long cord with molded plug.

230 VAC, 50/60 Hz, 1 Ph

230 VAC use requires replacement of 115 VAC plug and switching 115/230 VAC selector on circuit board. Also, replace beacon bulb with 210V bulb P/N 26-1011-8732-1 (available from 3M/Tape Dispenser Parts).

### Notes:

1. Circuit board consumes 7 watts of power, 60 mA@ idle, 90 mA in fail mode with beacon active on 115 VAC.
2. Unit will handle case sealing equipment drawing up to 10 amps at both voltages.

### Operating Environment:

NEMA 1

### Operating Temperature:

40 to 120° F [4 to 48° C]

### RF Immunity:

Shielded cables, sensors and connectors provide immunity from electrical equipment in the vicinity of the installation.

(Specifications Continued)

## Specifications (Continued)

### Warning Output:

1. Normally open Solid State Relay (SSR), 115/230 VAC, 2 amp contacts cyclically close when:
  - (a) box is not taped
  - (b) tape failed to cut
  - (c) tape supply is low
2. Indicator beacon provides:
  - (a) a burst of flashes to signal low tape condition
  - (b) steady flashes to signal taping head error
3. Output device is modular and field serviceable. It may be replaced with a commercially available 0.6 amp industry standard SSR.

### Power Output (for switching case sealer motors):

1. Normally closed SSR, 115/230 VAC, 25 amp contacts, protected by 10 amp power switch/circuit breaker, open when:
  - (a) box is not taped
  - (b) tape failed to cut

**Note:** Power output NC switch remains latched open upon fault condition until reset by switching unit off, then on again. Molded NEMA 5-15R three prong outlet is provided.

### Enclosure Construction (control module):

Electrical enclosure is resistant to oil, water and most solvents (NEMA 12 box, sealed switch and cable entry).

### Customer Signal Output:

A direct (opto isolated) coupling is provided for interface to customer device (computer, PLC, personal pager, etc.). This provides two outputs:

- (a) low tape warning
- (b) power enabled signals

### General Specifications:

One control module per two taping heads/for all case sealer applications with 3M-Matic™ taping heads.

Optical sensors provided, however, kit is compatible with input from standard 3M-Matic™ Low Roll Detector. (Low tape input compatible with commercially available photoelectric/proximity sensors and switch selectable for source or sink configurations.)

Compatible with standard 3M-Matic™ beacon and commercially available warning devices (horns, bells, lights, strobe lights, etc.) operating at selected line voltages.

Diagnostic LED's located on circuit board for service personnel.

A sensor override jumper is available for service technician on circuit board in the event of sensor or cable failure. (This allows continued machine use until replacement sensor(s) can be installed).

# Theory of Operation

## General

This device is in effect an ON/OFF switch between the wall outlet and the case sealer. The switch is controlled based on remote sensor information.

Three sensor types are utilized, one senses limited tape supply remaining, a second senses tape dispensing, and the third senses the presence of a box.

## Low Tape Warning

The tape supply detector is an optical device that is position adjustable by the customer to identify a low tape supply condition and warn in time to replace tape before the line is shut down.

The warning is a pulsed light signal from the warning/fault beacon.

## Tape Detection

Tape application is indirectly detected through the rotational motion of the tension roller.

## Box Detection

The presence of a box causes the cut off frame to move into the head actuating a sensor.

## Identifiable Error Conditions

Error conditions identified by this control module produce electronic signals that control a fault signaling device (warning/fault beacon) and control the main power to the case sealer. Use of this controller does not affect the case sealer centrally located stop switch.

**Important** – Always spread drive belts and remove upper taping head from contact with a box before trying to remove a jammed box from a machine.

The dispensing of tape without a box present would indicate that the tape failed to cut or in some way was pulled into the line conveyor.

The presence of a box without the dispensing of tape is an indication of tape supply run out or tape breakage, or conveyor system shutdown while a box was being sealed.

## Receiving And Handling

After unpacking the Tape Applicator Sensor Kit, examine all parts to be sure no damage has occurred during shipping. **If damage is evident, file a damage claim immediately** with the transportation company and also your 3M Representative.

## Installation – General

**Note** – Taping head illustrations in this manual show the upper taping head. The lower taping head is a mirror image of the upper head. Tape Application Sensor Kit includes parts for AccuGlide™ STD, AccuGlide™ II STD and AccuGlide™ HST taping heads. Some parts will not be used on your particular installation.

The following instructions are presented in the order recommended for installing the tape sensor kit on your equipment. Pay particular attention to the location and mounting of the sensors on the taping heads as this is the most critical part of the installation procedure.

**Note** – Refer to "Fastener Identification Chart", page 21 for full size drawings of fasteners included in this kit.

**For future reference, record Tape Application Sensor Kit serial number on front cover of this instruction manual in the space provided.**

## Installation – Mechanical



**WARNING** – Turn off and disconnect electrical and air supplies to case sealer before beginning installation. Failure to comply with this warning could result in severe injury to personnel.

### Control Module

The control module may be located remotely or mounted to the case sealer frame with the universal mounting bracket provided.

Remote Mounting – Mount the control module within 10 feet [3 m] of the case sealer upper and lower taping heads. Use four M6 hex head cap screws through the flanges on the side of the control module.

Case Sealer Mounting – The two universal mounting brackets (supplied) adapt the control module to most 3M-Matic™ case sealers. The recommended mounting position is shown on page 1, on the electrical switch side of the case sealer at the exit end of the machine. **Note: 800rf requires mounting on infeed conveyor.**

Figure 2-1 illustrates various mounting configurations on 3M-Matic™ case sealers with and without exit conveyors.

# Installation – Mechanical (Continued)

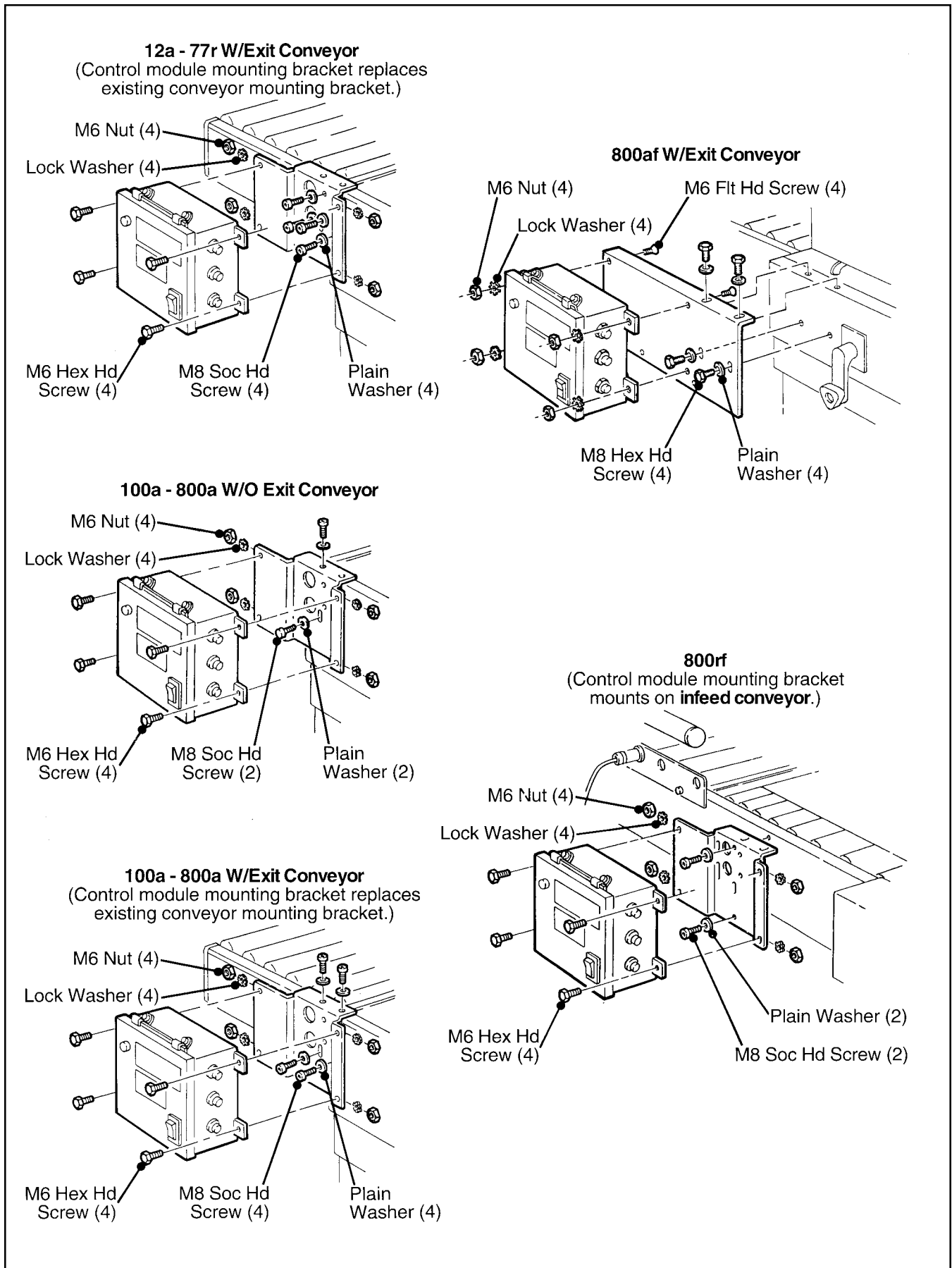


Figure 2-1 – Control Module Mounting With Universal Mounting Brackets

## Installation – Mechanical (Continued)

### Warning/Fault Beacon

The recommended mounting position for the warning/fault beacon is on the exit end of the case sealer across from the control module as shown on page 1.

#### BEACON POST ASSEMBLY

Figure 2-2

Assemble the two parts of the beacon post together and secure with the two M5 x 10 button head screws included in the kit.

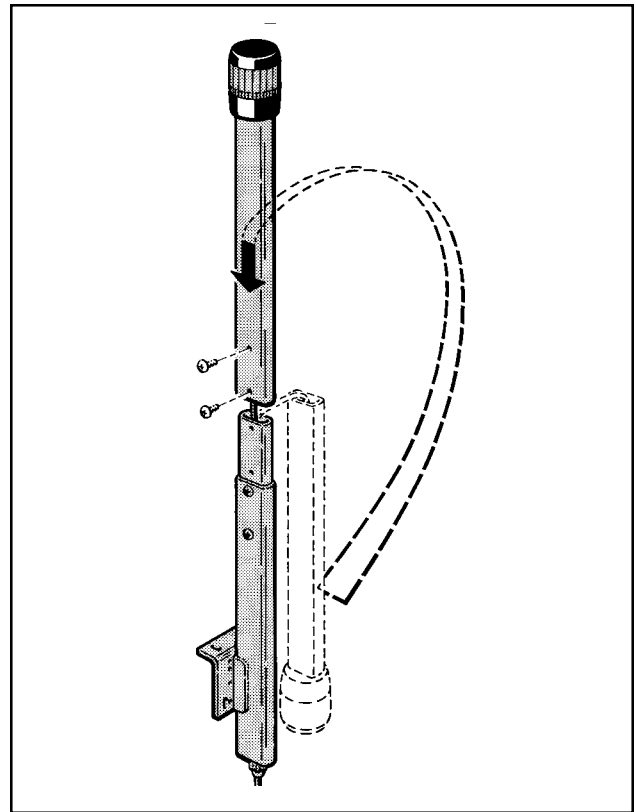


Figure 2-2 – Light Post Assembly

#### INSTALLATION WITH OPTIONAL EXIT CONVEYOR

Figure 2-3A

The beacon post mounts at the joint between the exit conveyor and the case sealer. Remove and discard the conveyor bracket that covers the joint. Also, discard the four hex head cap-screws and washers. Mount the beacon post where the bracket was removed, using four M8 x 16 screws and M8 plain washers.

#### INSTALLATION WITHOUT OPTIONAL EXIT CONVEYOR

Figure 2-3B

Mount the beacon post to the case sealer using two M8 x 16 screws and M8 plain washers.

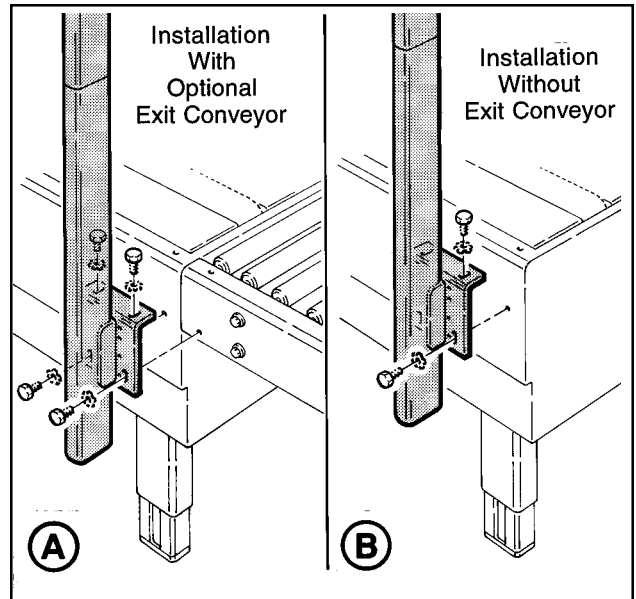


Figure 2-3 – Light Post Installation

**Note** – When mounted on 800af, beacon post can be mounted to the **exit end only**.

## Installation – Mechanical (Continued)

AccuGlide™ STD or AccuGlide™ II STD Taping Heads  
(Pages 9 - 12 and 21)

AccuGlide™ HST (See pages 14 - 19 and 21)

**WARNING** – Use care when working near blades as blades are extremely sharp. If care is not taken, severe injury to personnel could result.

Both upper and lower taping heads must be removed from the case sealer and equipped with a box presence sensor, tape rotation sensor and low tape sensor.

**Note** – Low tape sensor must be attached to tape drum bracket whether tape drum bracket is mounted to taping head or remotely mounted. Low tape sensor mounting is explained on page 21.

### BOX PRESENCE SENSOR

1. Remove the two cut-off springs from the spacer shafts using a needle nose pliers. Figure 2-4.
2. Use a 3 mm hex wrench and remove the two M5 x 20 flat head screws, spacers and bumpers from the cut-off bracket spacer shaft. Figure 2-4.

**Note** – Newer AccuGlide™ II taping heads after date code 42-93-001-02 (week-year-xxx-x) have mounting holes for box presence sensor punched in sideplate. If mounting holes are present, skip to step 5.

3. Place the drilling template provided in sensor kit, on the side plate of the taping head as shown in Figure 2-5.

**Note** – On the upper head, the template is placed on the side plate **opposite** the tension roller side. On the lower head the template is placed on the side plate that tension roller is mounted on.

Place the detent of the template in the 90° cut-out of the side plate and clamp the template to the side plate. **IMPORTANT** – This is critical, the template **MUST BE POSITIONED SNUGLY** into the 90° cut-out to provide proper sensor position.

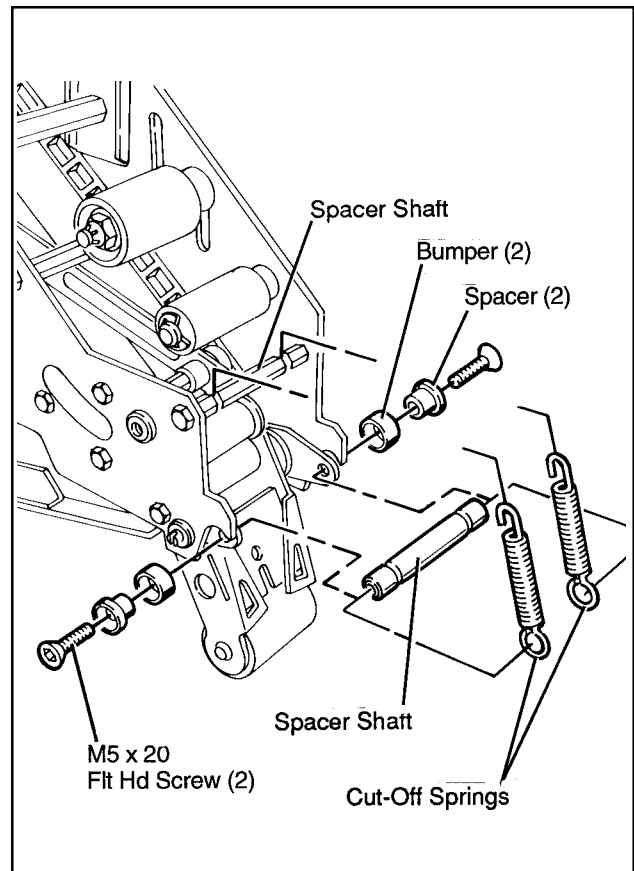


Figure 2-4

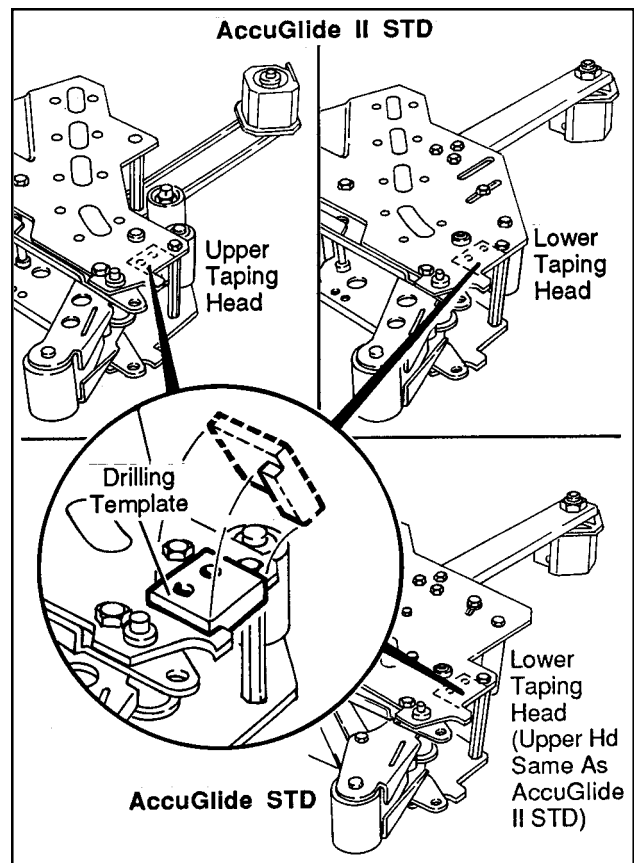


Figure 2-5



## Installation – Mechanical (Continued)

- Mask off the rollers and guides of the applying mechanism with newspaper or other paper. Using the template as a guide, drill two 1/4 inch [6.5 mm] holes in the side plate of the taping head. Remove template (do not discard) and deburr holes if necessary.

Remove masking paper and vacuum or brush away any metal chips that may have fallen on taping head. **Be sure no chips are left on applying mechanism rollers and guides.**

- Attach the box presence sensor to the side plate using (2) M5 x 20 mm lg. hex head bolts, external tooth lock-washers and nuts provided. See Figure 2-6. **Do not tighten screws** (to be tightened after later alignment). The box sensor cable should face 180° away from where the corrugated box would be during case sealer operation.

**Note** – On the upper head, the sensor is placed on the side plate opposite the tension roller side. On the lower head the sensor is placed on the side plate that tension roller is mounted on.

- Assemble the new magnet shaft, magnet holder, bushing and cut-off springs as shown in Figure 2-7. Hold assembly together and insert into cut-off frame with magnet holder **towards** box presence sensor. The two dowels on the magnet holder will locate the magnet holder on the cutoff frame.
- Attach magnet shaft to cut-off frame with bumpers, spacers and M5 x 20 flat head screws removed previously. See Figure 2-7. **Do not tighten screws** (to be tightened after later alignment).
- Remove the hex spacer shaft shown in Figure 2-7 and install new hex spacer shaft. Install with spring grooves aligned vertically with grooves in magnet spacer shaft.

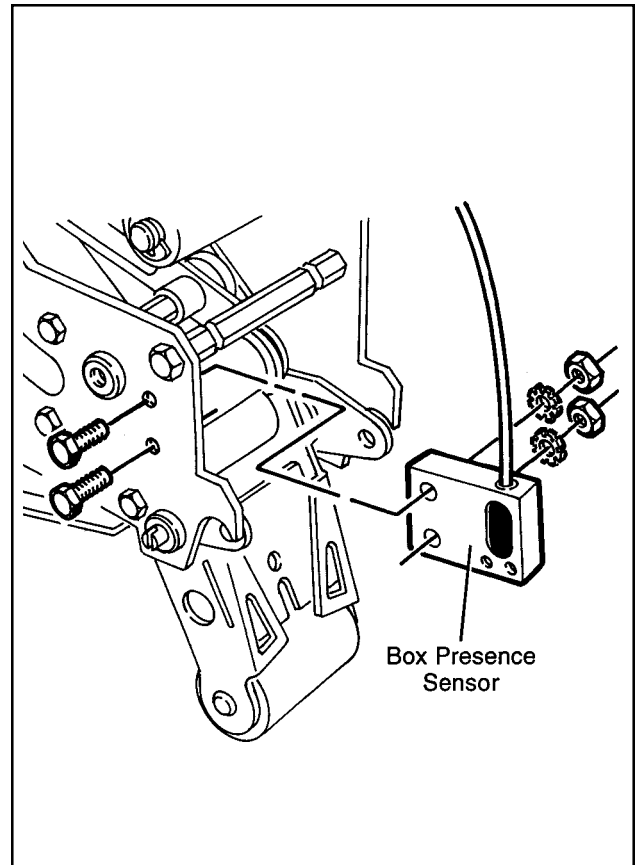


Figure 2-6

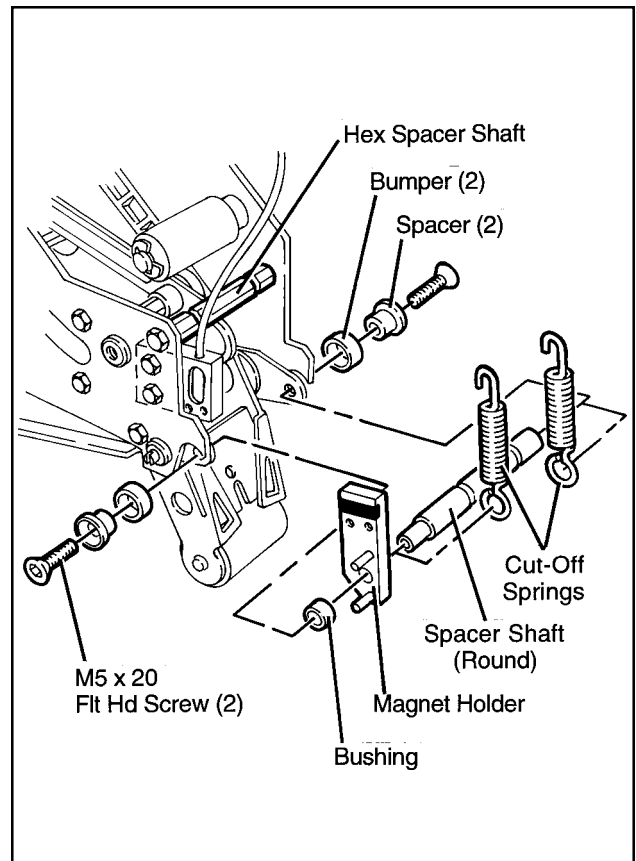


Figure 2-7

## Installation – Mechanical (Continued)

9. Use a needle nose pliers and hook the cut-off spring furthest from the sensor to the hex spacer shaft as shown in Figure 2-8. **Be sure both spring loops are in shaft grooves.**

10. Insert two M3 x 12 mm lg. socket head capscrews through the holes in the magnet holder and into the tapped holes in the box presence sensor. If the holes do not line up, shift the location of the box presence sensor to line up the holes. Snug the M3 capscrews (**this aligns the sensor temporarily**). See Figure 2-9.

11. Tighten the M5 x 20 mm lg. hex head capscrews and nuts holding the box presence sensor to taping head side plate.

12. Tighten the M5 flat head screws (installed in step 7) that secure the spacers, bumpers, bushing and magnet holder to the spacer shaft. (The magnet is now aligned with the box presence sensor.)

13. Remove the M3 x 12 mm socket head capscrews (installed in step 10) from magnet holder.

14. Use a needle nose pliers and hook the remaining cut-off spring to the hex spacer shaft. **Be sure spring loops are in shaft grooves.**

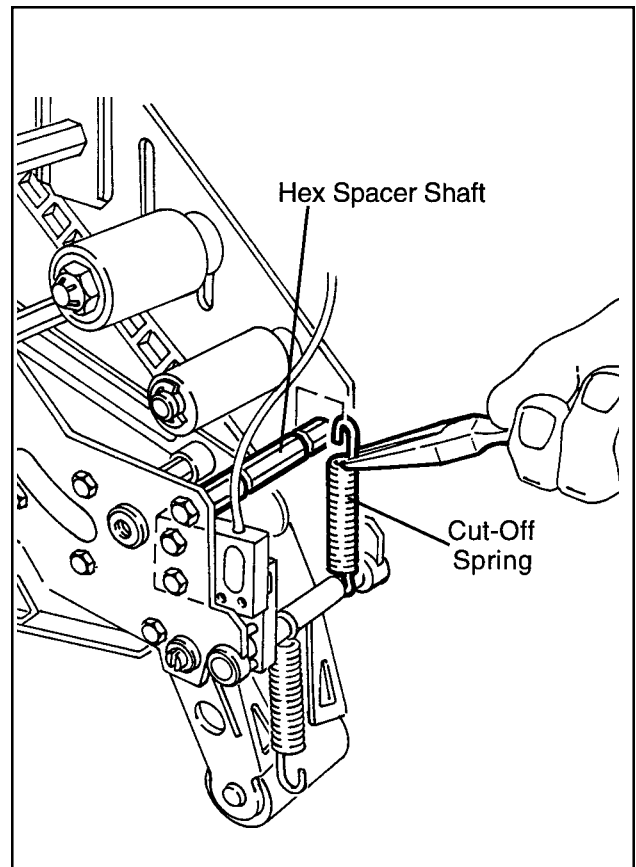


Figure 2-8

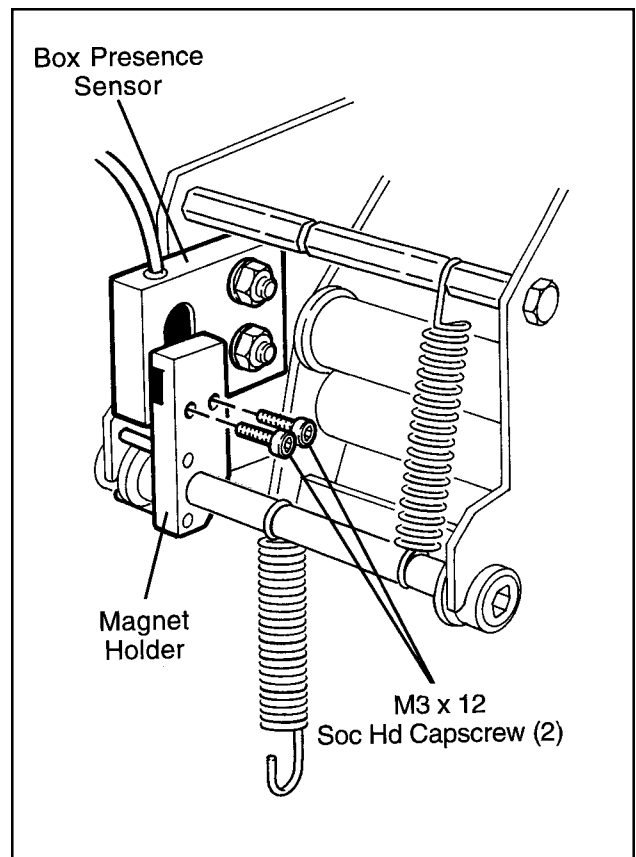


Figure 2-9

## Installation – Mechanical (Continued)

### TAPE ROTATION SENSOR

**Note** – Tension roller must be replaced with new roller provided in kit. Tension roller is mounted in one of two slots on taping head side plate and is located in a certain position within the slot. Mark location of roller with tape to assure installation of new roller in same relative position as old roller.

1. Remove the M6 x 10 mm hex head cap-screw that fastens the tension roller shaft to the taping head side plate and remove the roller/shaft assembly. See Figure 2-10.
2. Remove existing tension roller from shaft and replace with new roller.

**Note** – Be sure to install correct roller on upper/lower taping heads. After placing roller on shaft, rotate roller (roller on upper taping head should rotate in counterclockwise direction, roller on lower head should rotate in clockwise direction) as viewed from outer side of roller. If rotation is incorrect, switch rollers.

3. Install the tape rotation sensor between the tension roller shaft and the taping head side plate as shown in Figure 2-11. **Note – Tape rotation sensor REPLACES large plain washer between shaft and taping head side plate. DO NOT USE WASHER.** Replace and tighten the M6 x 10 hex head cap-screw and M6 plain washer that holds the tension roller shaft in position. **Be sure sensor cable is pointed in same direction as box presence sensor.**
4. Adjust roller tension according to instructions in taping head/case sealer manual.

### LOW TAPE SENSOR

See page 20 for installation instructions.

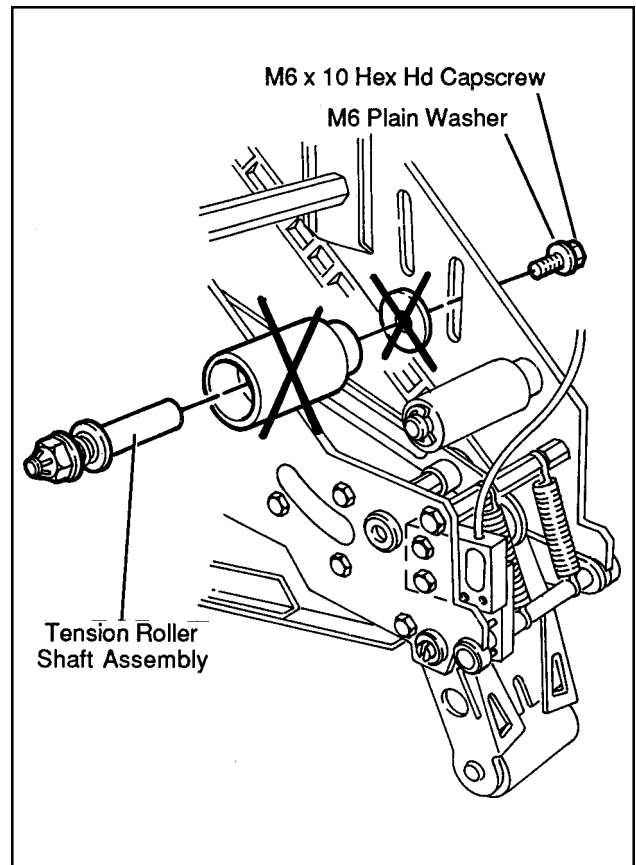


Figure 2-10

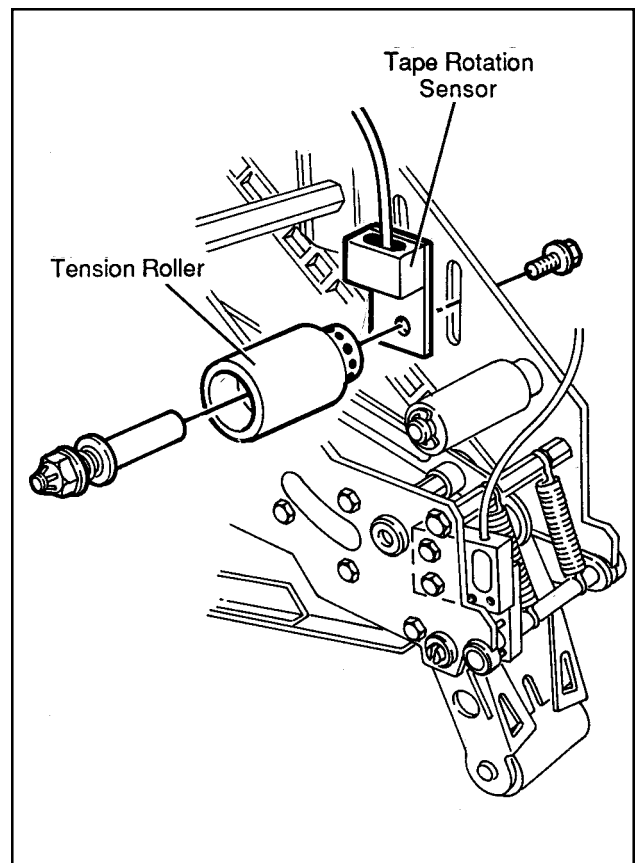


Figure 2-11

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## Installation – Mechanical (Continued)

### AccuGlide™ HST Taping Heads

(Pages 14 - 19 and 21)

**WARNING** – Use care when working near blades as blades are extremely sharp. If care is not taken, severe injury to personnel could result.

Both upper and lower taping heads must be removed from the case sealer and equipped with box presence sensor, tape rotation sensor and low tape sensor.

**Note** – Low tape sensor must be attached to tape drum bracket whether tape drum bracket is mounted to taping head or remotely mounted. Low tape sensor mounting is explained on page 21.

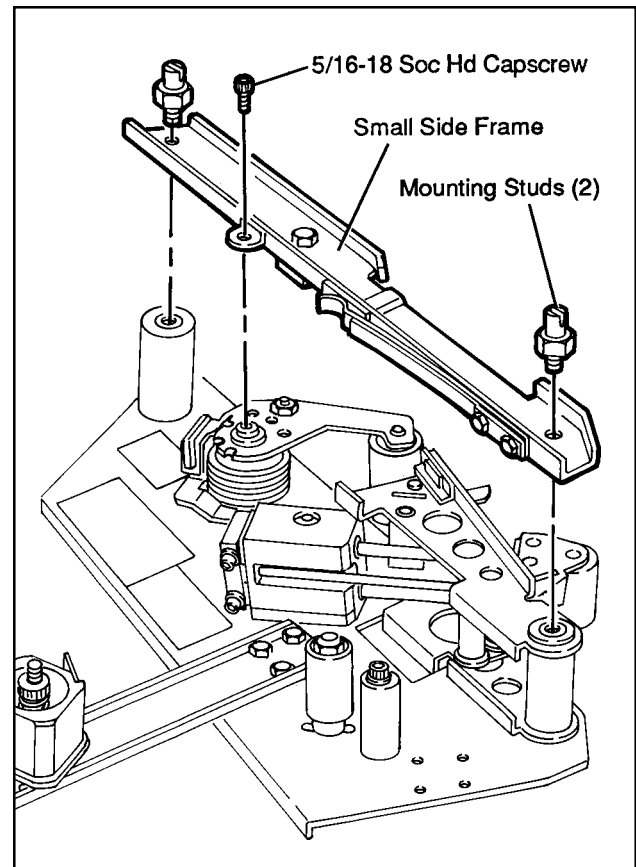


Figure 2-12

### BOX PRESENCE SENSOR

**Note** – Newer AccuGlide™ HST taping heads, after S/N T-1306 (upper) or B-1287 (lower), have mounting holes for box presence sensor punched in sideplate. If mounting holes are present, skip to step 6.

1. Lay the HST taping head on its side with the large side frame down.
2. Remove the mounting studs on the front and rear of the taping head. Also remove the 5/16-18 socket head capscrew that holds the buffing arm. Remove the small side frame from taping head. See Figure 2-12.
3. Remove the applying roller assembly as follows (refer to Figure 2-13):
  - a. Remove the (2) shoulder screws, washers and nuts that fasten the stop block to the applying roller shafts.
  - b. Remove the stop block and bumper from the shafts. **Be careful not to let the applying roller assembly slide out of the bearing housing unexpectedly.**
  - c. Remove applying roller and shaft from bearing housing.
4. Lift the cut-off bracket out of the taping head, turn it over and lay on its side. (The side facing up needs holes drilled for the magnet holder.)

## Installation – Mechanical (Continued)

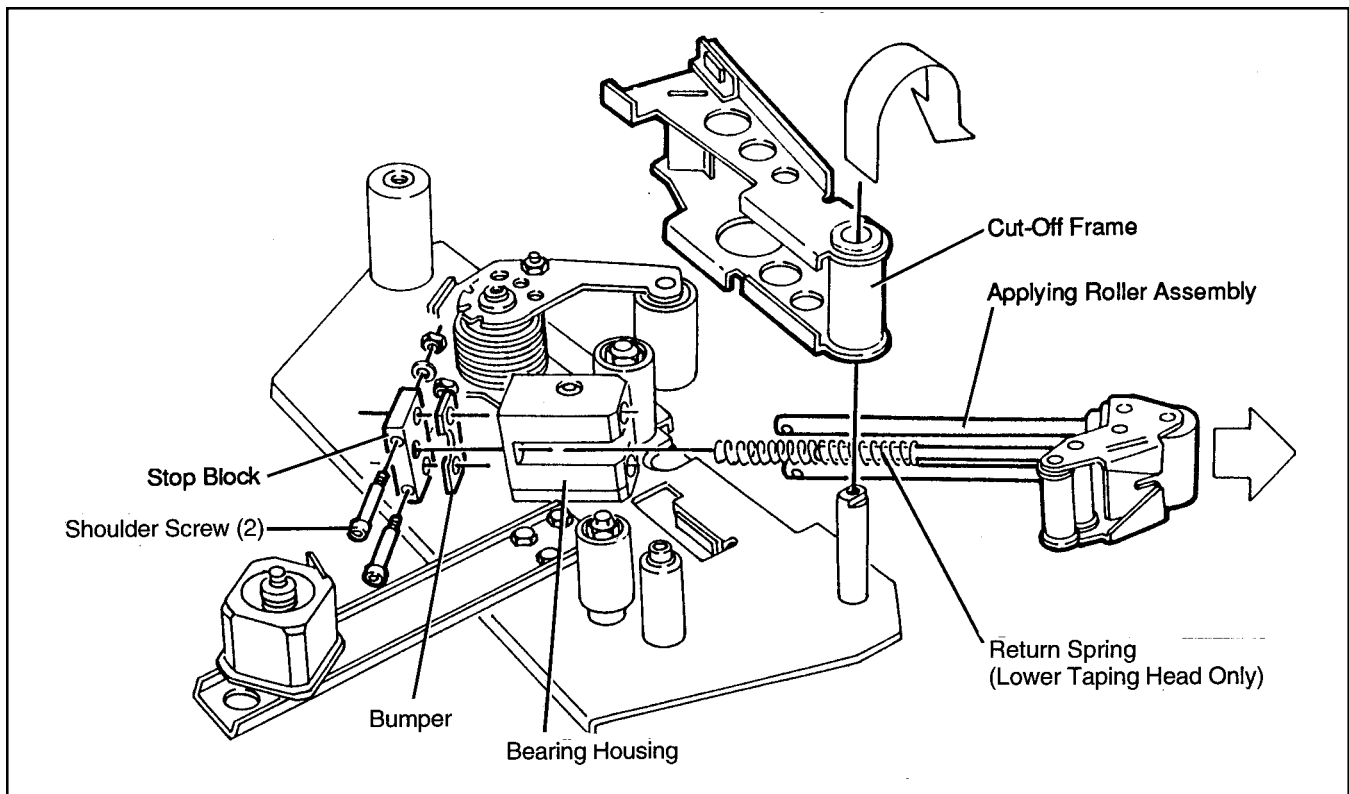


Figure 2-13

5. Locate and drill mounting holes for magnet holder in side of cut-off bracket as follows (refer to Figure 2-14):
  - a. Locate and clamp the magnet holder to the cut-off frame 2.0 inches [50 mm] from the center of the cut-off frame pivot. (This is the side, when installed in the taping head, faces the large side plate.) Magnet holder should be tucked snugly into the corner of cut-off frame and then clamped firmly.
  - b. Drill two .128 inch [3.6 mm] holes in cut-off frame through the center set of holes in the magnet holder. **Be sure to use the holes closest to the 90° angle in the magnet holder for drilling guide.** See Figure 2-14. Remove clamp holding magnet holder and remove magnet holder. Deburr holes and vacuum or brush metal chips away from taping head.

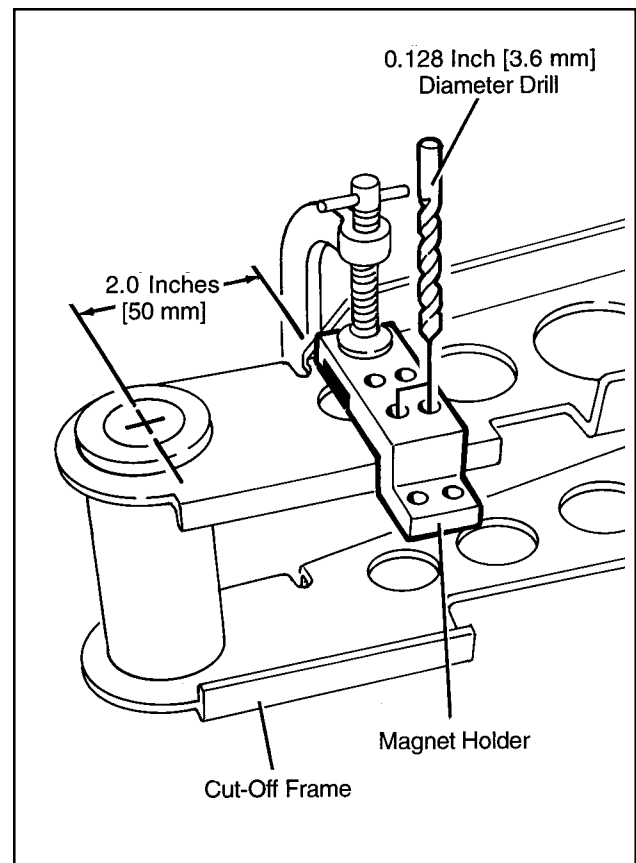


Figure 2-14

## Installation – Mechanical (Continued)

- Attach the magnet holder to the cut-off frame with two M3 x 12 phillips drive capscrews and nuts as shown in Figure 2-15.

**Note** – Capscrews should be inserted from outside of cut-off bracket, with nuts on inside, against magnet holder.

If Pem nuts are already installed on cut-off bracket, fasten magnet holder to bracket with M3 x 8 screws.

- Reinstall the cut-off frame into the taping head. Slide applying roller shafts into bearing block and assemble bumper, stop block, shoulder screws, washers and nuts. See Figure 2-16.

**Note** – On lower taping head, it is necessary to insert the return spring on the center shaft. To facilitate spring assembly, insert a screwdriver through the center shaft hole in the bearing housing, into the end of the spring and into the hole in the end of the center shaft. Use the screwdriver to guide the shaft through the hole in the bearing housing.

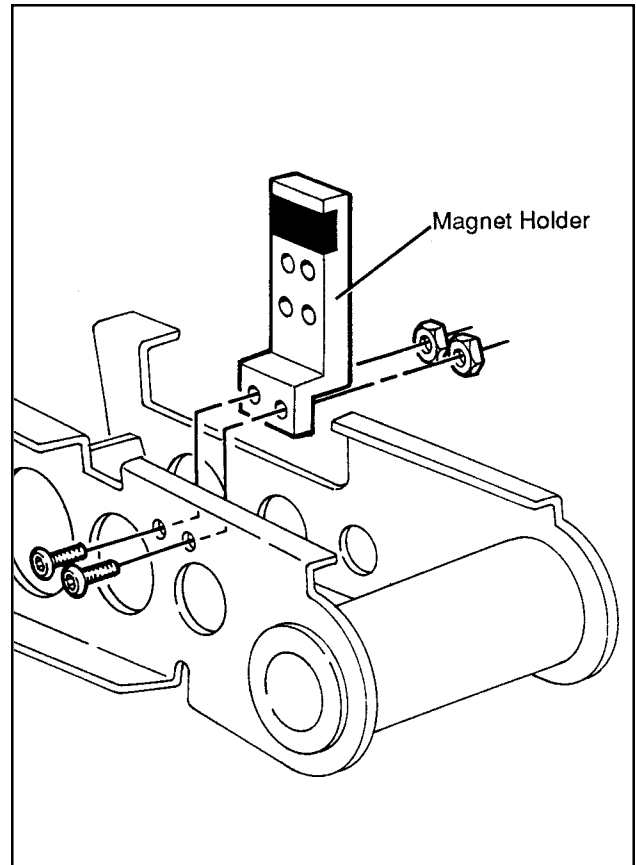


Figure 2-15

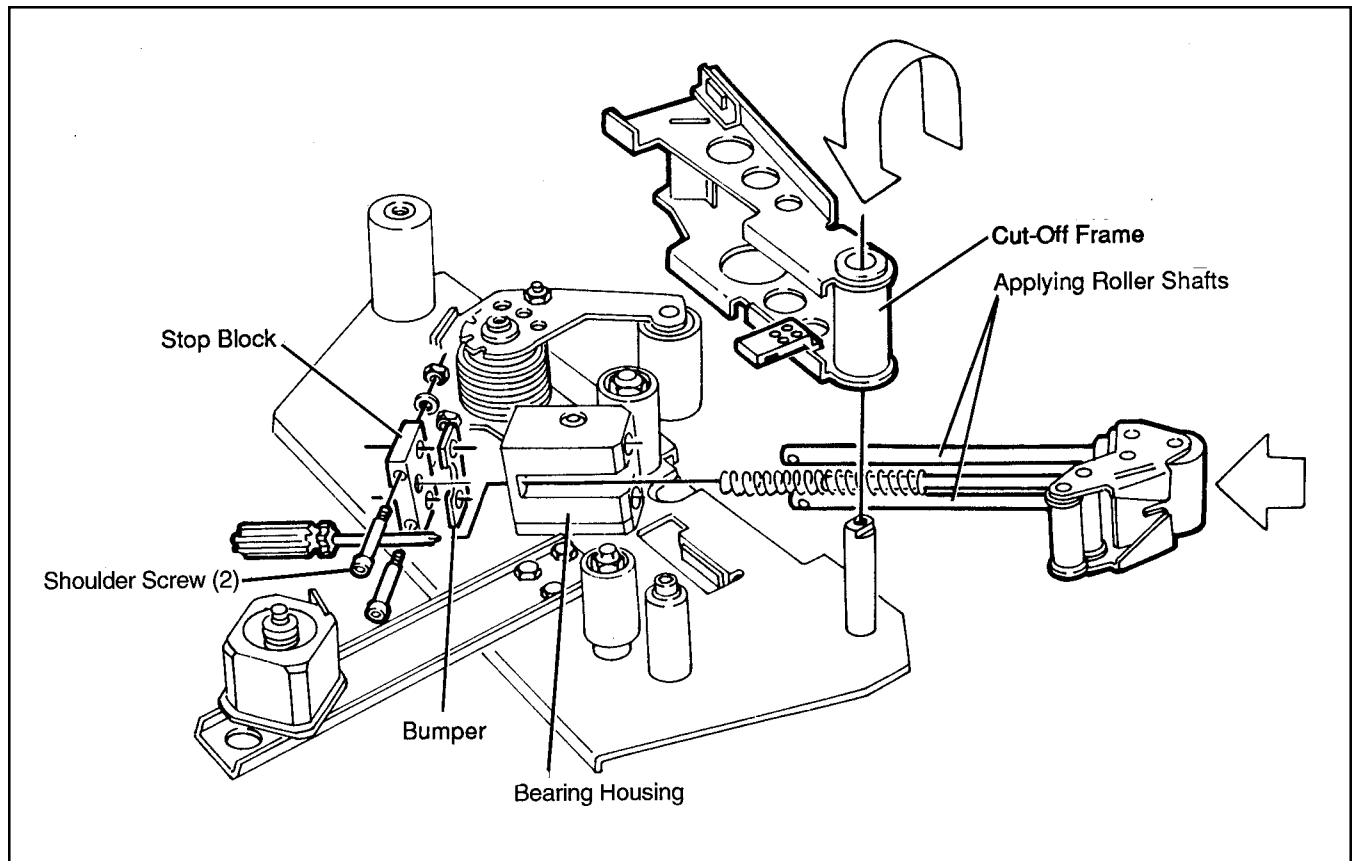


Figure 2-16

## Installation – Mechanical (Continued)

8. Replace the small side frame on the taping head with (2) mounting studs and 5/16-18 socket head cap-screw that hold buffering arm assembly. See Figure 2-17.

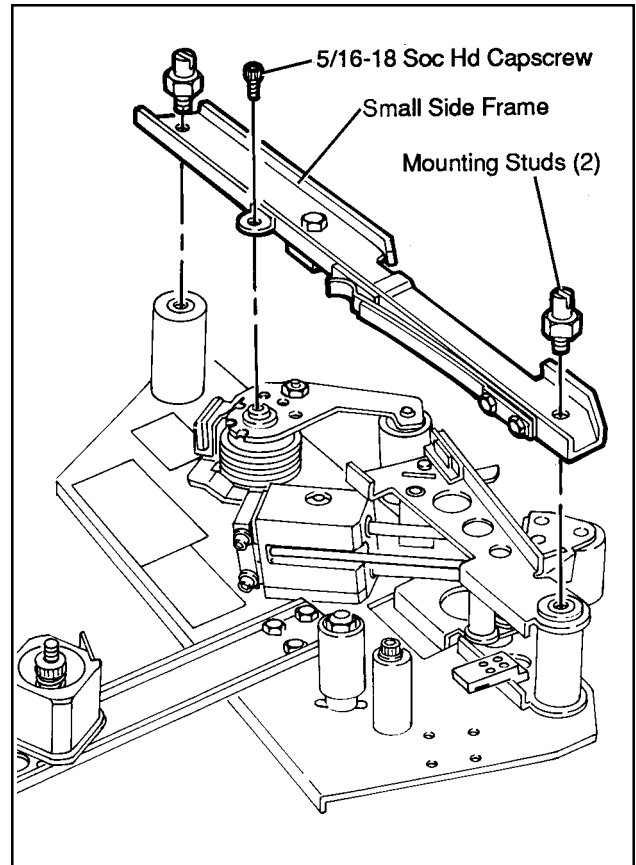


Figure 2-17

9. Temporarily attach the box presence sensor to the magnet holder with two M3 x 12 socket head cap screws as shown in Figure 2-18. Using the holes in the box presence sensor as a guide, drill two 1/4 inch [6,3 mm] holes through large side plate of taping head. **Be sure cut-off frame is in its normal rest position when drilling holes.**

**Note** – If box presence mounting holes exist in taping head side plate, skip this step.

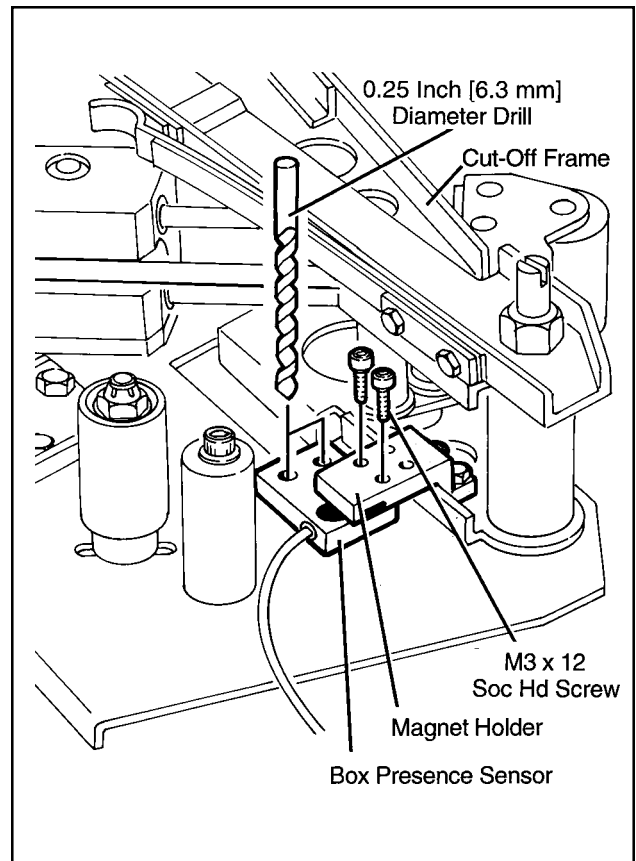


Figure 2-18



## Installation – Mechanical (Continued)

- Slip the .190 inch [4.8 mm] thick shim (provided in kit) between box presence sensor and large side plate and attach sensor to side plate with two M5 x 25 hex head capscrews and nuts as shown in Figure 2-19. **Capscrews should be inserted through sensor with nuts and external tooth lock-washers on back of side plate.** Snug tighten the M5 mounting screws. Remove the two M3 capscrews securing magnet holder and box presence sensor together. Firmly tighten the M5 mounting screws.

**Note – Lower Taping Head.** Because of interference problems, customer must countersink holes in Box Presence Sensor and then install sensor with (2) M5 x 25 flat head, socket drive screws. (Do not countersink any deeper than required to accept heads of screws.) See Figure 2-19, HST Lower Taping Head.

### TAPE ROTATION SENSOR

**Note –** Tension roller must be replaced with new roller provided in kit. Tension roller is mounted in a certain position within a slot on the taping head side frame. Mark location of roller with tape to assure installation of new roller in same relative position as old roller.

- Remove the 1/4-20 hex head screw that fastens the tension roller shaft to the taping head side plate, remove the tension roller/shaft assembly and discard. See Figure 2-20.

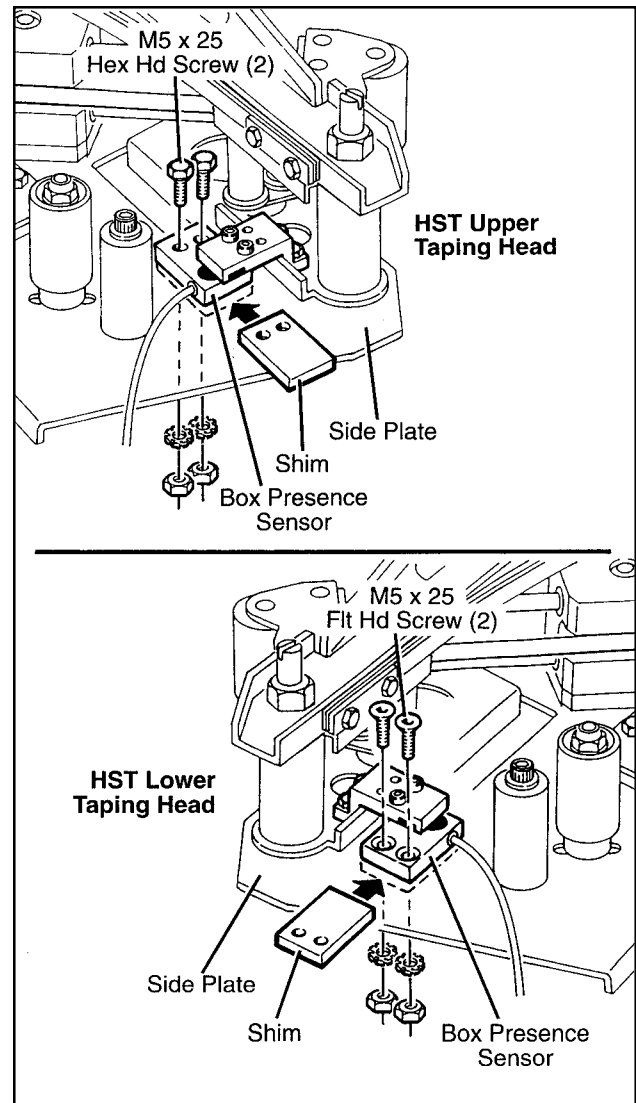


Figure 2-19

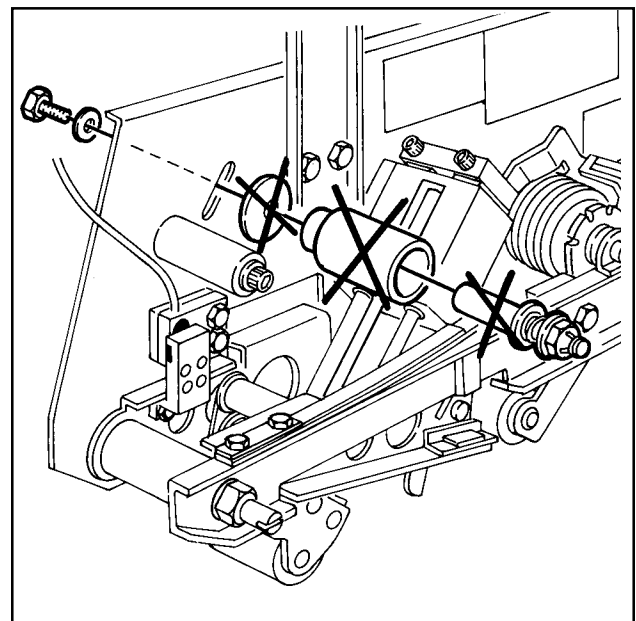


Figure 2-20

## Installation – Mechanical (Continued)

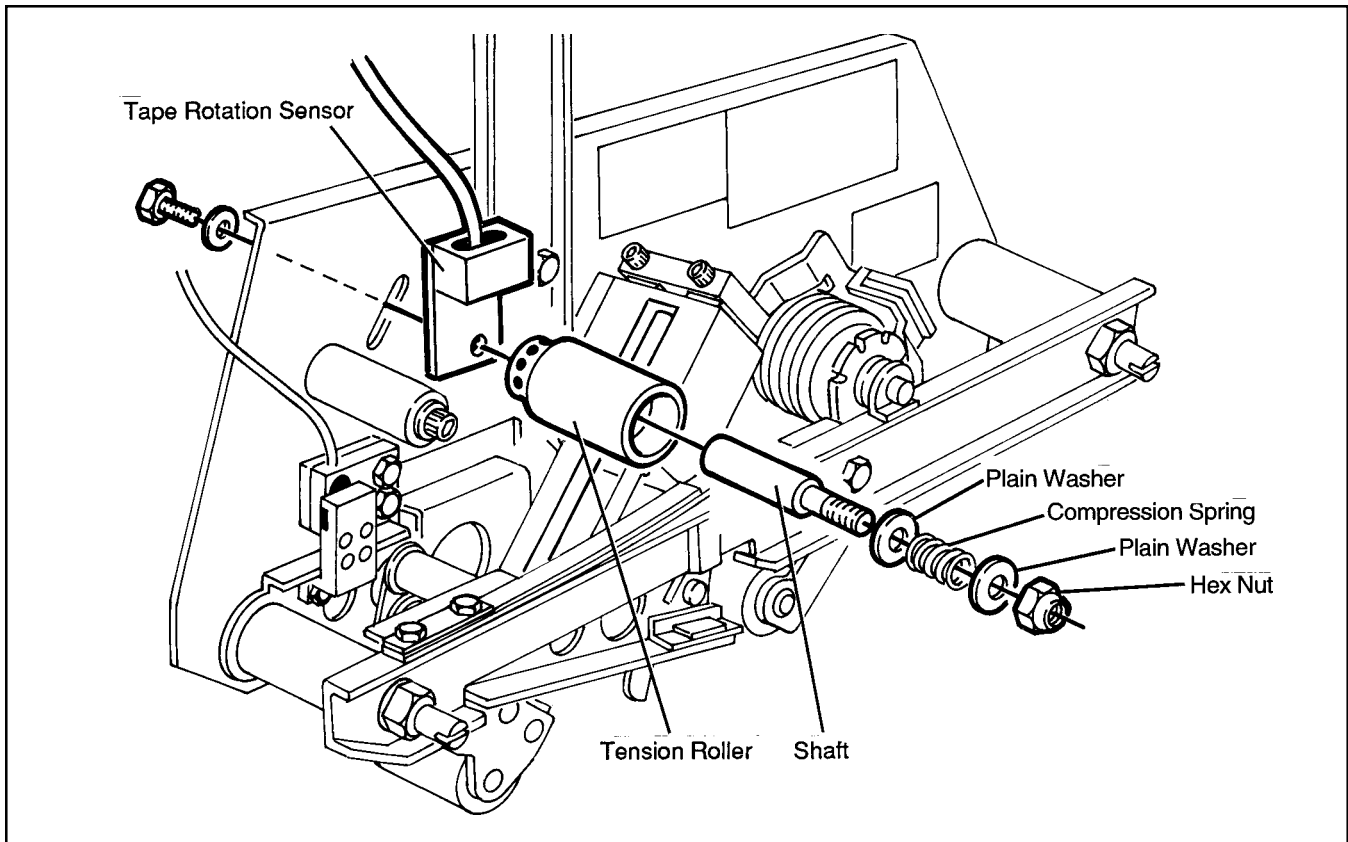


Figure 2-21

2. Install new parts from kit. Shaft, tension roller, washers, compression spring and hex nut and fasten to taping head side plate with M6 x 12 hex head screw and M6 plain washer. See Figure 2-21. Install tape rotation sensor between shaft and side plate with sensor cable pointed in same direction as box presence sensor.  
**Note – Tape rotation sensor REPLACES large plain washer between shaft and taping head side plate. DO NOT USE WASHER.**

**Note –** Be sure to install correct roller on upper/lower taping heads. After placing roller on shaft rotate roller (roller on upper taping head should rotate in clockwise direction, roller on lower head should rotate in counterclockwise direction) as viewed from outer side of roller. If rotation is incorrect, switch rollers. **This note applies to Type 39100 taping heads only. On Models 18600 and 28800, both tension rollers rotate counterclockwise. (Second counterclockwise tension roller must be ordered separately. See parts list.)**

3. Adjust roller tension according to instructions in taping head manual.

### LOW TAPE SENSOR

See page 20 for installation instructions.

## Installation – Mechanical (Continued)

### Low Tape Sensor – All Taping Heads

1. Attach sensor mounting bracket to tape drum bracket as shown in Figure 2-22. Mounting bracket clamp should be centered on tape drum bracket and sensor mounting hole centered on tape drum.

Use (4) M5 x 10 lg. socket head capscrews and M5 plain washers for "U" shaped tape drum bracket or (4) M5 x 20 lg. socket head capscrews and M5 plain washers for tube type tape drum brackets. **Install screws with heads on tape drum side of bracket.**

2. Install sensor (see Figure 2-23) into hole in mounting bracket with wave washers and nuts provided. Adjust so sensor is approximately 1/2 inch [12 mm] from core of tape when tape roll is installed. **Tighten nuts snugly but DO NOT overtighten.**

**Note** – Single head use requires second sensor be installed or disabled, see "Low Tape Detection Bypass" (page 30).

**Note** – Usage/line speed and response time will determine proper position of sensor for specific customer satisfaction. For earlier low tape sensing, move sensor away from core of tape roll. For later sensing, move sensor closer to core of tape roll.

Installation of box presence, tape rotation and low tape sensors on both upper and lower taping heads completes the taping head installation.

Install tape rolls on tape drums and rethread tape through taping heads.

Install taping heads back into case sealer.

**Note** – Be careful when installing taping heads to avoid damage to low tape sensors. Also, be careful not to damage sensor connectors when installing taping heads.

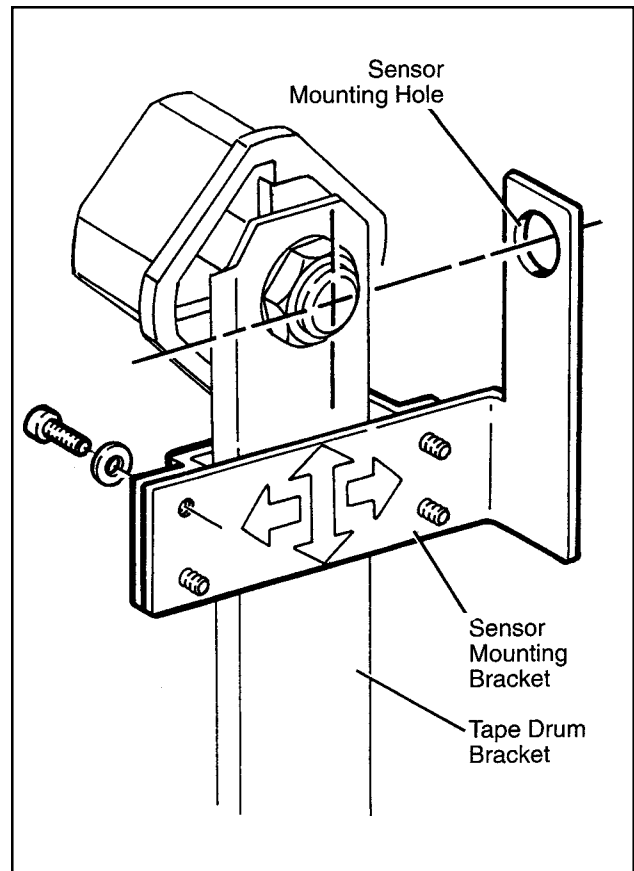


Figure 2-22

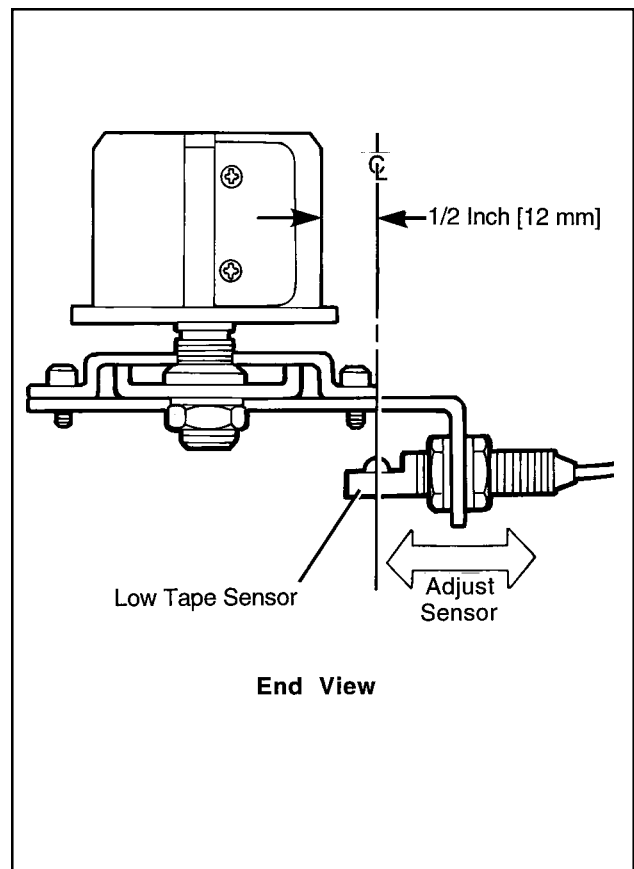
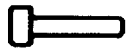



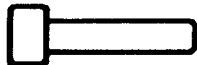
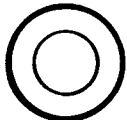




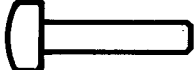

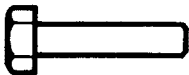

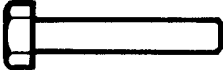


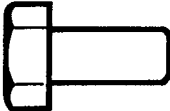
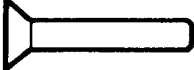


Figure 2-23

## Fastener Identification Chart

Screw – Soc Hd, M3 x 12 mm Lg		Washer – Plain, M5	
Screw – Soc Hd, M5 x 10 mm Lg		Washer – Plain, M6	
Screw – Soc Hd, M5 x 20 mm Lg		Washer – Plain, M8	
Screw – Pan Hd, Phil Dr, M3 x 8 mm Lg		Washer – Lock, Ext Tooth, M5	
Screw – Pan Hd, Phil Dr, M3 x 12 mm Lg		Washer – Lock, Ext Tooth, M6	
Screw – Pan Hd, Phil Dr, M5 x 20 mm Lg		Nut – Hex, M5	
Screw – Hex Hd, M5 x 20 mm Lg		Nut – Hex, M6	
Screw – Hex Hd, M5 x 25 mm Lg		Nut – Hex, M3	
Screw – Hex Hd, M6 x 12 mm Lg			
Screw – Hex Hd, M8 x 16 mm Lg			
Screw – Flt Hd, Soc Dr, M5 x 25 mm Lg			

## Installation – Electrical



### WARNINGS

1. **High voltage electrical work must be performed by a qualified electrician according to local codes.**
2. **DO NOT OPEN CONTROL MODULE COVER. Any installation or service procedures inside the control module must be performed by a qualified service technician.**

### Important Notes

1. Control module is set for 115V power. 230V use requires switching 115V/230V selector switch on circuit board to 230V position. See page 33, Figure 6-1 – Power Interface.
2. 230V use requires removal of 115V power plug and beacon bulb. Replace plug with appropriate 230V plug and 115V beacon bulb with 3M P/N 26-1011-8732-1 (Telemecanique #DL 1BL240) 230V bulb.
3. Case sealer may be hardwired to control module by removing molded female plug.
4. Control module may be hardwired to power supply by removing molded male plug.
5. For 115V 3-phase contactor connection, see page 33, Figure 6-1 – Power Interface.

### Cable Connections – Figure 3-1

1. Connect "Y" cables from upper and lower taping heads (box presence/rotation sensors) to control module with 7-pin cables.

**Note** – Single taping head use does not require special termination of unused second sensor cable.

2. Connect upper and lower tape sensors (on tape drum brackets) to control module with 3-pin cables.

**Note** – Single taping head use requires unused second sensor be installed or disabled. See "Low Tape Detection Bypass", page 30.

3. Plug warning/fault beacon cable into female molded receptacle on control module (labeled: Lamp 2 Amp Max).
4. Plug case sealer into female molded receptacle on control module (labeled: Load 10 Amp Max).
5. Plug power cord from control module into AC fused outlet.
6. Attach cables to case sealer with wire ties keeping cables away from moving parts of case sealer. See Figure 3-2 for suggestions on cable ties.

Fasten "Y" cables from box presence/rotation sensors to taping heads only — **do not fasten to case sealer.**

### Test Sensors For Proper Positioning

1. Box Presence Sensor – see page 28
2. Tape Rotation Sensor – see page 27

# Installation – Electrical (Continued)

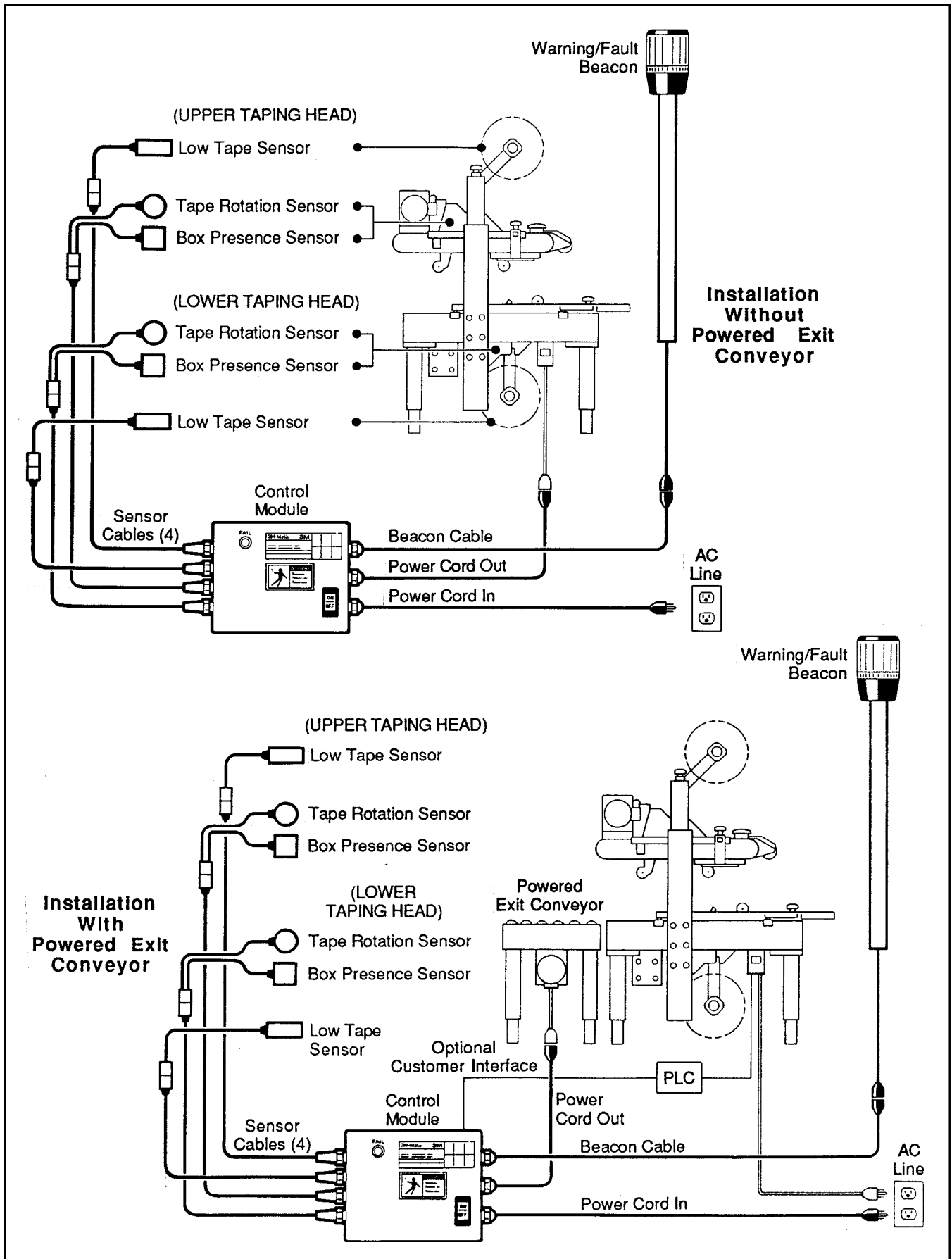


Figure 3-1 – Typical Installations

# Installation – Electrical (Continued)

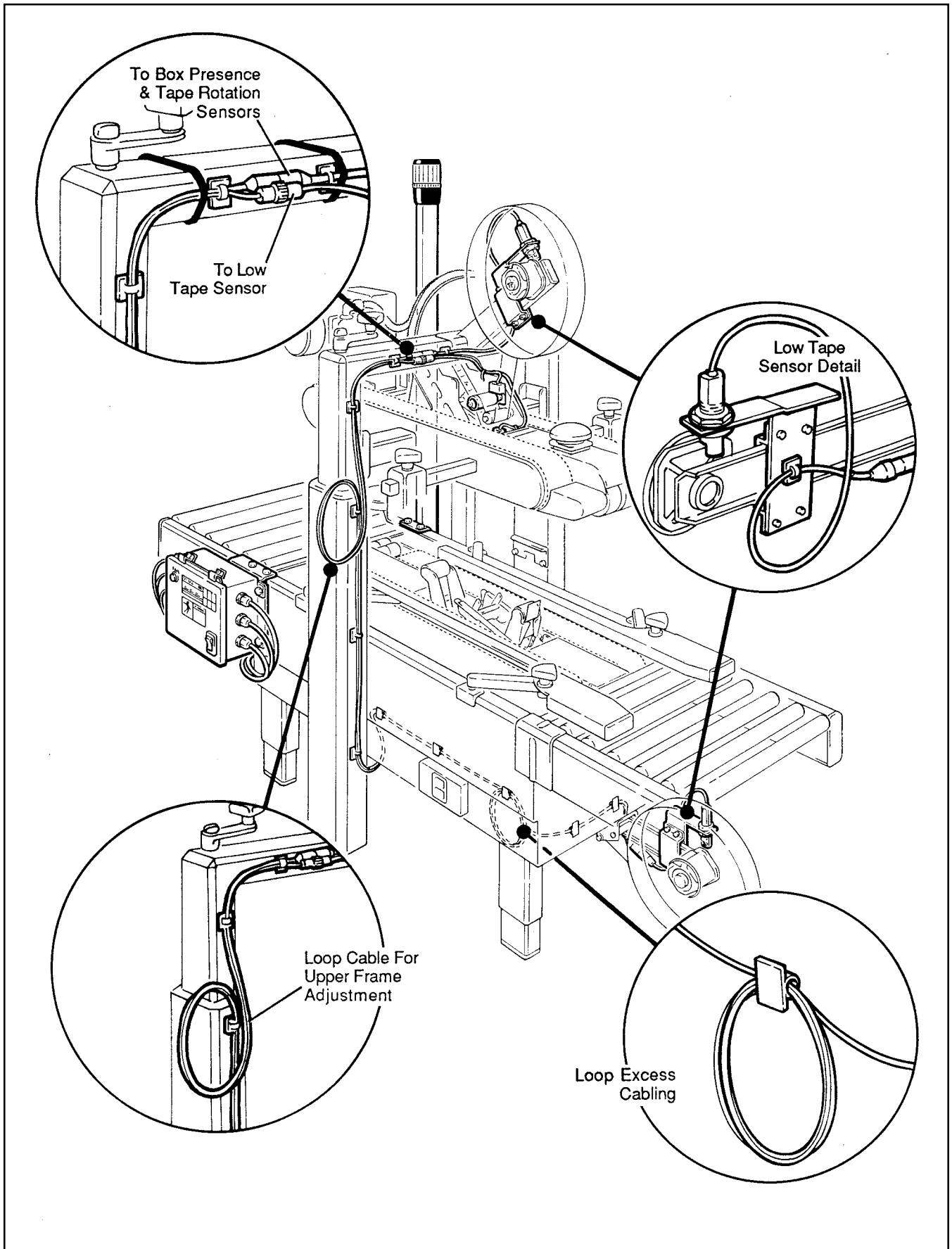


Figure 3-2 – Cable Tie-Downs

## Operation

Operation of the Tape Application Sensor Kit requires no operator attention other than heeding low tape condition or correcting tape application problems indicated by flashing beacon. (The Tape Application Sensor Kit is merely an on/off switch between the available line voltage and the case sealer.)

### Power Switch and Indicators Include:

1. Power Switch – System power is controlled by the power switch, "O" for OFF and "1" for ON. The power switch is illuminated when power is on. The power switch is also a mechanical circuit breaker set at 10 amps on 115/230V. (Switching power ON automatically resets the circuitry and applies power to the load.)
2. Warning/Fault Beacon – Beacon will flash when low tape or faulty taping condition occurs.

The beacon will flash a burst of pulses when:

- Tape supply gets low

Case sealer will shut down and beacon will flash continuously when:

- Tape supply runs out
- Tape breaks
- Tape binds up
- Tape fails to cut off
- Box slips and fails to be transported by drive belts.

3. Fail Indicator – The fail indicator turns on whenever an error condition is identified. The fail indicator will remain on until the control module is turned off.

Turn case sealer OFF, and disconnect any air supply. Open case sealer drive belts and remove box from machine.



**WARNING – Use care when working near blades as blades are extremely sharp. If care is not taken, severe injury to personnel could result.**

After completing the necessary fix, (replace tape roll, cut tape, splice, etc.) and no potential hazard exists, switch control module power ON and start case sealer.

**Note –** Turning the control module power OFF then ON, resets the error detection electronics and switches on the load.

## Maintenance

The only maintenance required is to periodically check low tape optical sensor(s) and clean any dirt off sensor(s).



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## Adjustments

### Low Tape Sensor – Figure 4-1

The low tape sensor is adjustable for desired low tape detection point. Move sensor away from tape roll core for earlier detection or closer to tape roll core for later detection.

Adjust sensor in or out (by loosening sensor mounting nuts) or loosen and move sensor mounting bracket on tape drum bracket. **Note – Keep sensor in line with center of tape roll when adjusting bracket.** Tighten sensor mounting nuts (snug) on mounting bracket screws (tight) after adjusting to desired location.

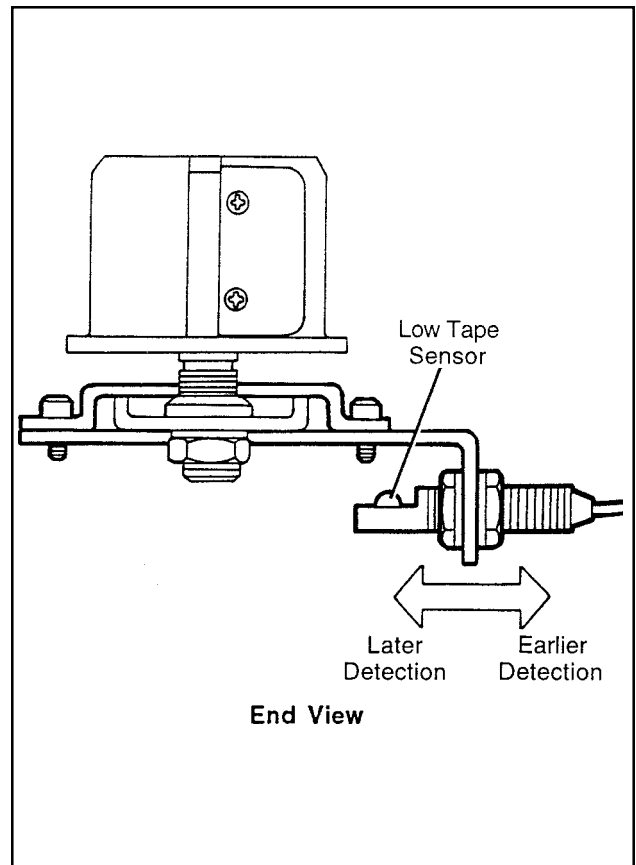


Figure 4-1 – Adjustment, Low Tape Sensor

### Tape Rotation Sensor – Figure 4-2

1. Switch control module power ON or "1". At this point, the fail indicator on the control module and warning/fault beacon on the post should be OFF. The power switch should be illuminated.
2. Manually rotate tension roll as continuously as possible for one complete revolution. The fail indicator should illuminate. If it does not, contact a qualified service technician.

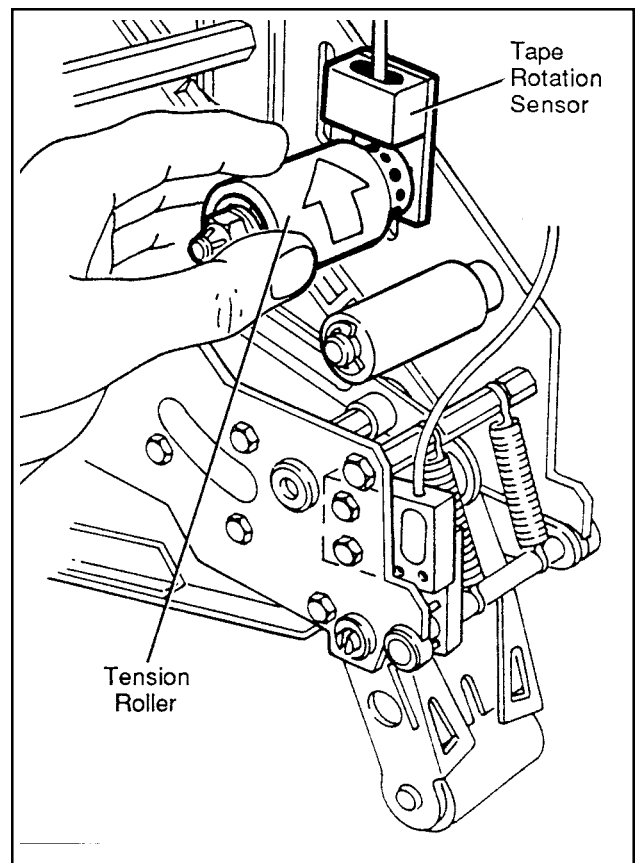


Figure 4-2 – Adjustment, Tape Rotation Sensor

## Adjustments (Continued)

### Box Presence Sensor – Figure 4-3

1. Switch control module power ON or "1". At this point, the fail indicator on the control module and warning/fault beacon on the post should be OFF. The power switch should be illuminated. If fail indicator remains illuminated or beacon flashes, switch power OFF, then ON. If still illuminated, the box presence sensor may be out of position.

To re-adjust alignment of box presence sensor:

- a. Loosen (2) hex head screws/nuts that fasten sensor to taping head side plate.
  - b. Install (2) M3 x 12 socket head capscrews through magnet holder into box presence sensor.
  - c. Tighten hex head screws/nuts that fasten sensor to taping head side plate.
  - d. Remove M3 socket head capscrews from magnet holder/box presence sensor.
2. Manually push cut-off bracket into the head. Fail light should come on, If it does not, repeat a, b, c, d above. If sensor still does not function properly, contact a service technician.

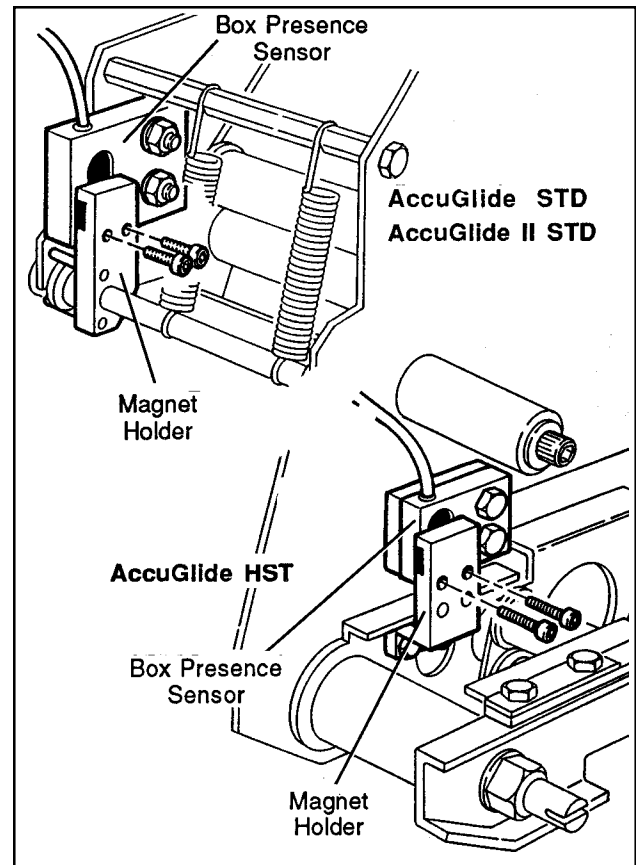


Figure 4-3 – Box Presence Sensor

## Special Set-Up Procedure

**WARNING – Electrical installation/ service procedures INSIDE control module must be performed by a qualified service technician. Before removing control module cover, TURN OFF AND DISCONNECT ELECTRICAL POWER – HIGH VOLTAGE COULD BE PRESENT INSIDE CONTROL MODULE.**

### Customer Interface – Figure 5-1 & 5-2

Two customer interfaces are provided via photon isolated couplers (H11A5100) to monitor POWER ENABLED and LOW TAPE.

**Note** – Feed through fittings are supplied for customer cables. Use sheathed twisted pair such as Belden Type 8740, 22 AWG, NEC Type CM, cables that will seal in these fittings.

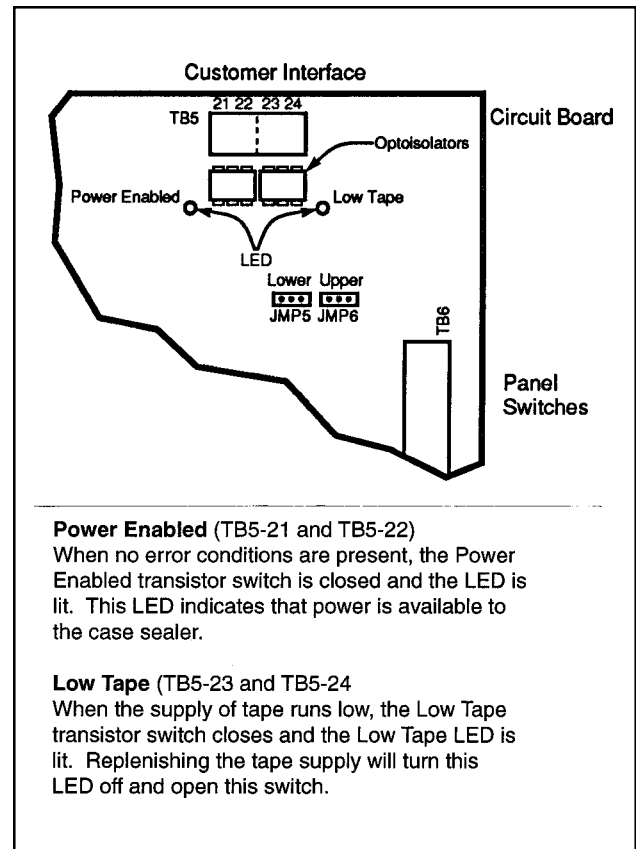


Figure 5-1 – Customer Interface

## Special Set-Up Procedure (Continued)

### Power Enabled Signal

When tape application sensor power is turned on any previous error conditions are automatically cleared. With no error condition present, power to the case sealer is ON. The customer may interface a signal indicating "power enabled" at Terminal Block 5 (TB5). TB5 is connected to a photon coupled isolator (TB5-21 collector, TB5-22 emitter). This optically isolated transistor switch is closed when power to the case sealer is ON. The circuit board LED labeled "Power Enabled" is also lit. When an error is detected this transistor switch is opened and LED will turn off. This switch can be interfaced to a relay coil or PLC using the circuit in Figure 5-2.

### Low Tape Signal

The low tape signal works in a fashion similar to the Power Enabled Signal. The customer may interface a signal indicating "low tape" at Terminal Block 5 (TB5). When a low tape condition is detected a photon coupled isolator closes (TB5-23 collector, TB5-24 emitter) and the

"Low Tape" LED on the circuit board is lit. When the low tape condition is cleared this transistor switch is opened and LED will turn off. This switch can be interfaced to a relay coil or PLC using the circuit in Figure 5-2.

**Note** – The opto isolators used are industry standard NPN devices (I.D. Number H11A5). Complete specifications for these devices are available from Siemens Electronics or Quality Technologies, Inc.

### Single Head Operation

To operate only one taping head, the other dual sensor assembly (78-8095-1099-9) can be bypassed by simply unplugging it. However, to disable the low tape detector for the unused taping head, follow the instructions under "Low Tape Detection Bypass" on page 30.

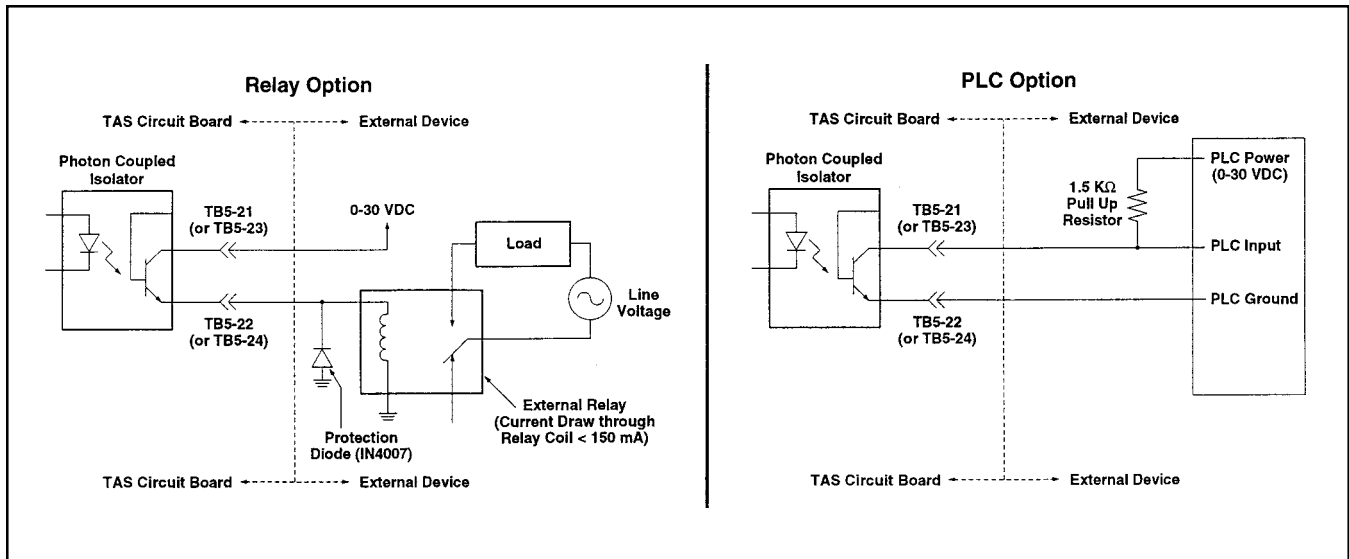


Figure 5-2 – Customer Interface

## Special Set-Up Procedure (Continued)

### Optional Low Tape Switch Input – Figure 5-3

A low tape supply warning switch can be wired into the Tape Application Sensor Kit control module in place of the supplied optical sensors.

**Note** – Feed through fittings are supplied for customer cables. Use cables that will seal in these fittings. (Approximately 0.15 to 0.25 inches [3.8 to 6.4 mm] diameter.)

Remove shoulder screw from one of the two extra cable fittings on the left side of control module for wire access to control module.

Install twisted pair cable at TB2-8 and TB2-9 for the lower head, TB3-11 and TB3-12 for the upper head. Place switch S1 (lower head) and S2 (upper head) in the "SINK" position. Connect the other end of the twisted pair cable to the low tape alert mechanical switch. Connect the twisted pair to the normally closed contact "NC" and common.

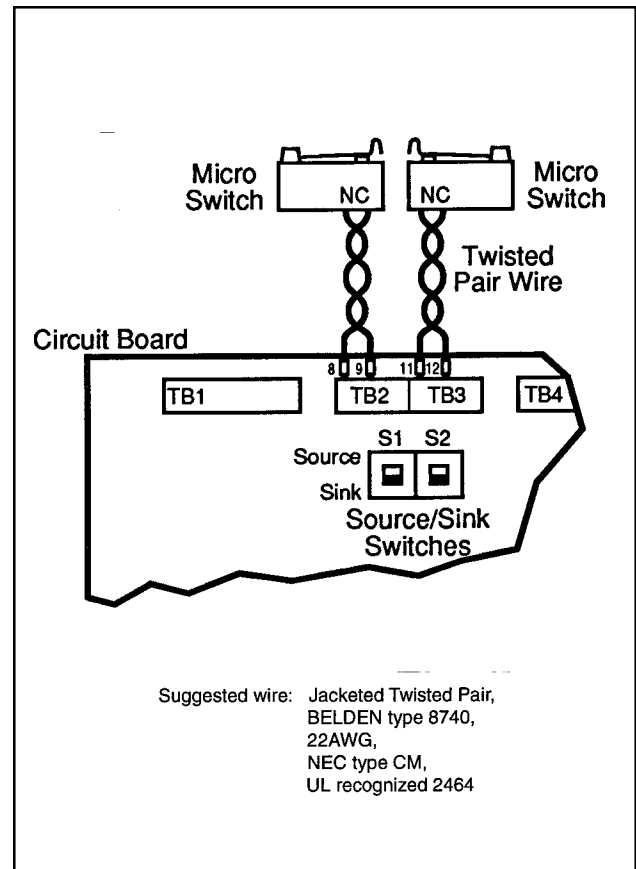


Figure 5-3 – Optional Low Tape Switch

### Low Tape Detection Bypass – Figure 5-4

A low tape condition will not affect continued case sealing operations. (Any failure to cut or apply tape during a low tape indication will override the low tape signal and affect system shutdown signals.)

A damaged or missing optical detector will result in an inaccurate low tape warning.

If the customer chooses not to use this detector or the detector is damaged, it can be disabled by installing jumper wires on the circuit board terminal strip and leaving the switches in the down "SINK" position.

Alternately, the circuit board is equipped with jumper terminals that can be used to bypass the tape detection circuit. JMP3 and JMP4 should be shipped to the customer with the jumper block installed on one leg of the jumper terminals only (so the two legs are not shorted together). To bypass the low tape detection circuit move the jumper block so it covers both legs of the jumper strip (shorting the legs together). Jumper terminal JMP3 to bypass the upper low tape circuit and JMP4 to bypass the lower low tape circuit.

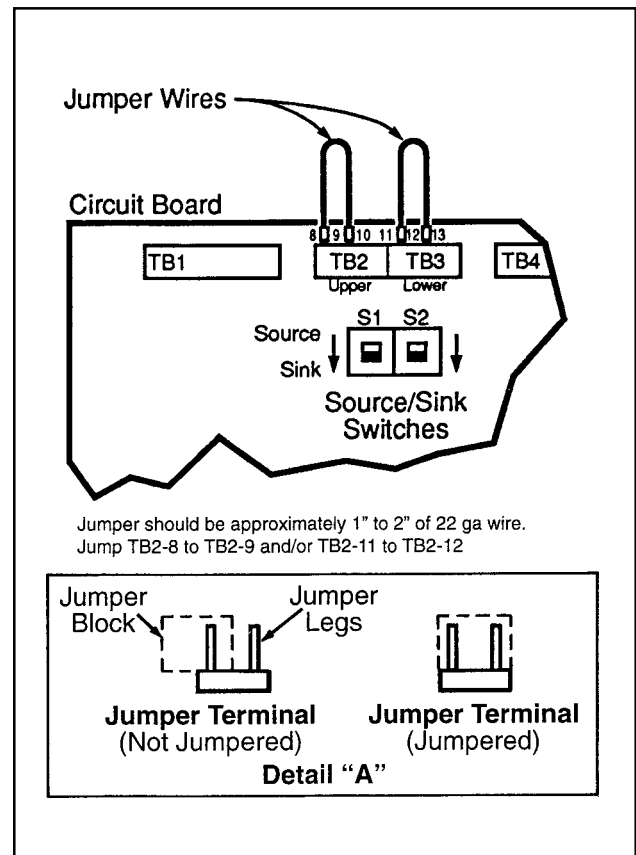


Figure 5-4 – Low Tape Bypass

## Special Set-Up Procedure (Continued)

### Interfacing 800rf

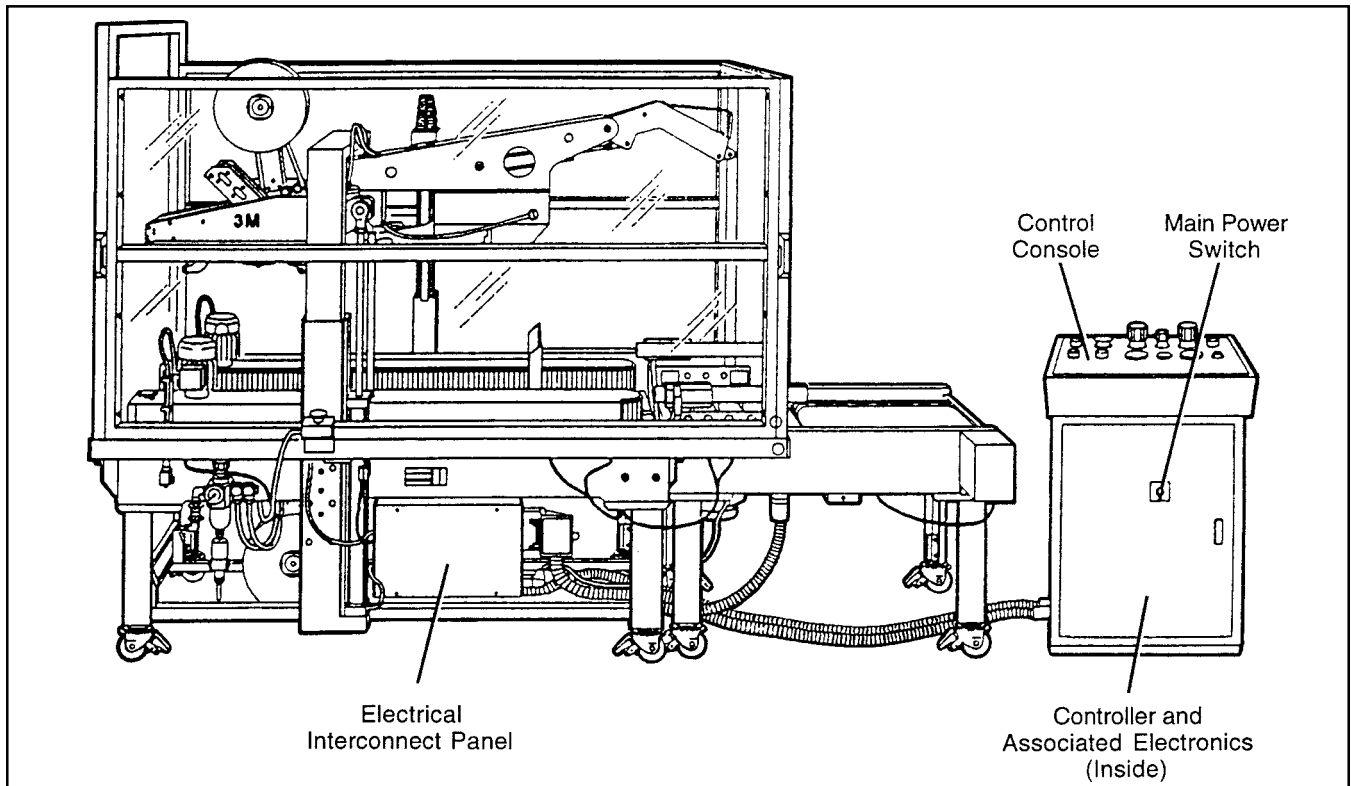


Figure 5-5 – 800rf Case Sealer

The 800rf can be interfaced to the TAS using a variety of methods. These include:

- Running the switched power output to a 3 phase contactor. The contactor can then be used to switch power to the 800rf as shown in Figure 6-1.
- Interfacing the PLC of the 800rf directly to the photo transistor outputs on the circuit board of the TAS as shown in Figure 5-1. The exact connection when interfacing to the 800rf's PLC depends on the present status of the 800rf and the desired action of the case sealer after an error has been detected.

**Option 1:** The Tape Application Sensor can be interfaced to the same terminals to which optional photocell 6 is normally interfaced. In this case the 800rf will temporarily disable the infeed conveyor when the Tape Application Sensor is in the fail mode.

**Option 2:** The 800rf can also be made to shut off power to the drive conveyors upon detection of an error. If this is the desired action it is necessary to have program "MA" or later installed in the PLC. To get a copy of program "MA", contact your local 3M sales representative or distributor.

1. Create a cable like the one shown in Figure 5-6. The cable must be long enough to reach from the electrical interconnect panel on the 800rf to the control module of the Tape Application Sensor. The cable should be a 2-conductor, twisted pair, 20-22 awg.

## Special Set-Up Procedure (Continued)

2. Open the cover of the Tape Application Sensor and remove the plug from the extra cord grips which are provided on the left side of the control module of the Tape Application Sensor. Feed the end of the cable created in Step 1 with only two leads through this cord grip. Insert wire 1 of the cable into TB5-21 and wire 2 into TB5-22 (these are plug in terminals so the screw part of the terminal can be removed from the board).
3. Remove the electrical interconnect panel on the 800rf (see Figure 5-5) and feed the other end of the cable through one of the holes in the side of the electrical interconnect box. Insert the other end of wire 1 into terminal 5 of the terminal strip inside the 800rf if you desire that the machine operates as described in option 1 (page 31). If a terminal has more than one screw, all screws may need to be loosened to insert a new wire. (Insert the other end of wire 1 into terminal 18 of the terminal strip inside the 800rf if you desire that the machine operates as described in option 2, page 31.) Insert the other end of wire 2 into terminal 4 and wire 3 into terminal 3. Tighten down all terminal screws.

Replace the cover on the TAS control module and the 800rf electrical interconnect panel.

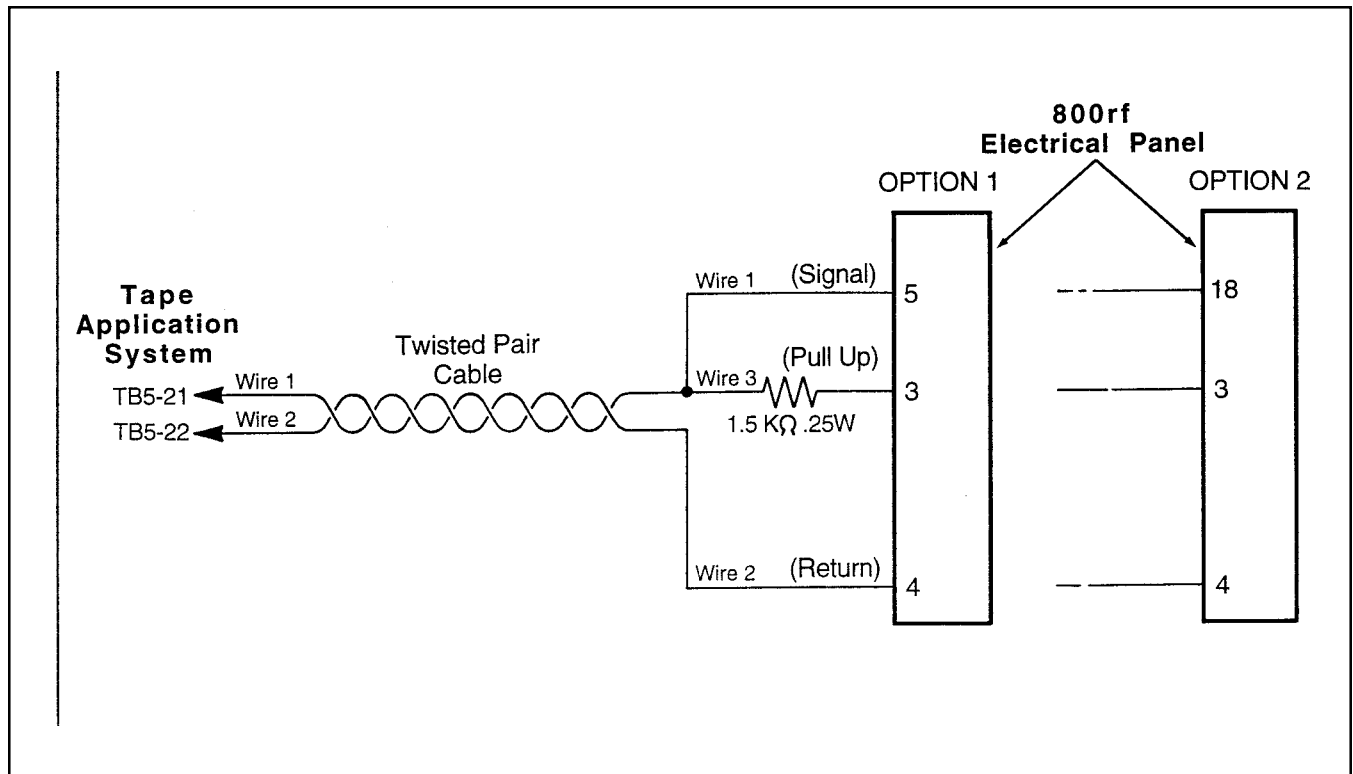


Figure 5-6 – Interface Cable, 800rf

# Troubleshooting



**WARNING –Electrical service procedure INSIDE control module must be performed by a qualified service technician. Before removing control module cover, TURN OFF AND DISCONNECT ELECTRICAL POWER – HIGH VOLTAGE IS PRESENT INSIDE CONTROL MODULE.**

Review Installation Section of this manual so that the operational components of the Tape Application Sensor Kit are understood. The Troubleshooting Guide lists some possible problems, causes and corrections.

**Note –** Adjustment of sensors are described in the "Adjustment" section of this manual.

## Troubleshooting Guide

<b>Problem</b>	<b>Cause</b>	<b>Correction</b>
No power to case sealer	Wall outlet inoperative	Verify voltage, plug into operating outlet
	Tripped circuit breaker	Switch power OFF, then ON
	Case sealer plugged into wrong outlet of control module	Verify outlet and check F2 fuse (warning/fault beacon)
	SSR (K2) failed in open condition	Call service
TAS power switch/circuit breaker trips often	Case sealer draws excessive current beyond the 10 amp max	Consider breakout box and contactor to handle heavy current
Case sealer does not shut off for occurrence of error condition	Faulty sensor/sensors	Test unit function – see adjustment procedure to determine fault
	Sensor(s) not plugged into TAS control module	Plug in
	Case sealer not plugged into control module	Verify outlet
	SSR (K2) failed in closed condition	Call Service
	Taping head box detector sensor holes and screws do not line up	See adjustment procedure
TAS control module fail light inoperative	Error detection inoperative	Verify TAS control module function – see installation and adjustment
Warning/fault beacon inoperative	Beacon not plugged in	Plug into TAS outlet "Light Pole"
	Bulb burned out or filament broken	Turn power off, disconnect cord, check continuity of bulb, replace if needed
Warning/fault beacon pulses in bursts indicating low tape when adequate supply exists	Detector is turned away from tape	Turn sensing lens toward tape roll
	Detector not plugged in	Plug into cables
	Single head application, second sensor not used	Plug second sensor into cables and aim at some target, then disable second sensor (See page 30)

(Continued)



# Troubleshooting (Continued)

## Troubleshooting Guide

<b>Problem</b>	<b>Cause</b>	<b>Correction</b>
Tape stretches and breaks	Incorrect threading	Thread per tape head manual
	Tension rollers installed on wrong head	Check for CW/CCW per tape travel
	Tension too high on tension roller	Refer to tape head manual
	Sensor cables interfere with tape travel	Review cable tie locations
Tape does not dispense	Tape leg adjustment incorrect	Refer to tape head manual
	Tension setting too high on tension roller, causing tabbing	Refer to tape head manual
Tape fails to cut off	Cut off blade is dull or in incorrect position	Refer to tape head manual
Tape walks off tension roller	Tape sensor assembly not secured	Refer to installation and adjustments
Box stalls in case sealer	Drive belts too far apart	Refer to case sealer manual for proper adjustment
	Compression rollers set too close together	Refer to case sealer manual for proper adjustment
Box continues down line when tape failed to cut and case sealer shuts off	Box being pulled out of case sealer by exit conveyor	Install short non-powered exit conveyor or use TAS control module to switch powered exit conveyor
Indicated error condition stops case sealer when no true error exists	Weak box is crushing in case sealer	Upper box flaps must support taping head cut-off frame
	Case sealer line operation is interrupted (start/stop/start, etc.)	TAS only works with continuous line motion
	Malfunctioning Sensors	Refer to "Sensor Diagnostics", page 36
	Magnet holder is out of adjustment	Adjust magnet holder, see "Box Presence Sensor", page 28
	Time delay needs to be increased	Consult service technician
Case sealer stops in mid taping operation for no apparent reason and indicates an error condition	Box too long Box not full Box is collapsing	Upper box flaps must support taping head cut-off frame

# Electrical Diagram

**! WARNING – Electrical installation/service procedures INSIDE control module must be performed by a qualified service technician. Before removing control module cover, TURN OFF AND DISCONNECT ELECTRICAL POWER – HIGH VOLTAGE IS PRESENT INSIDE CONTROL MODULE.**

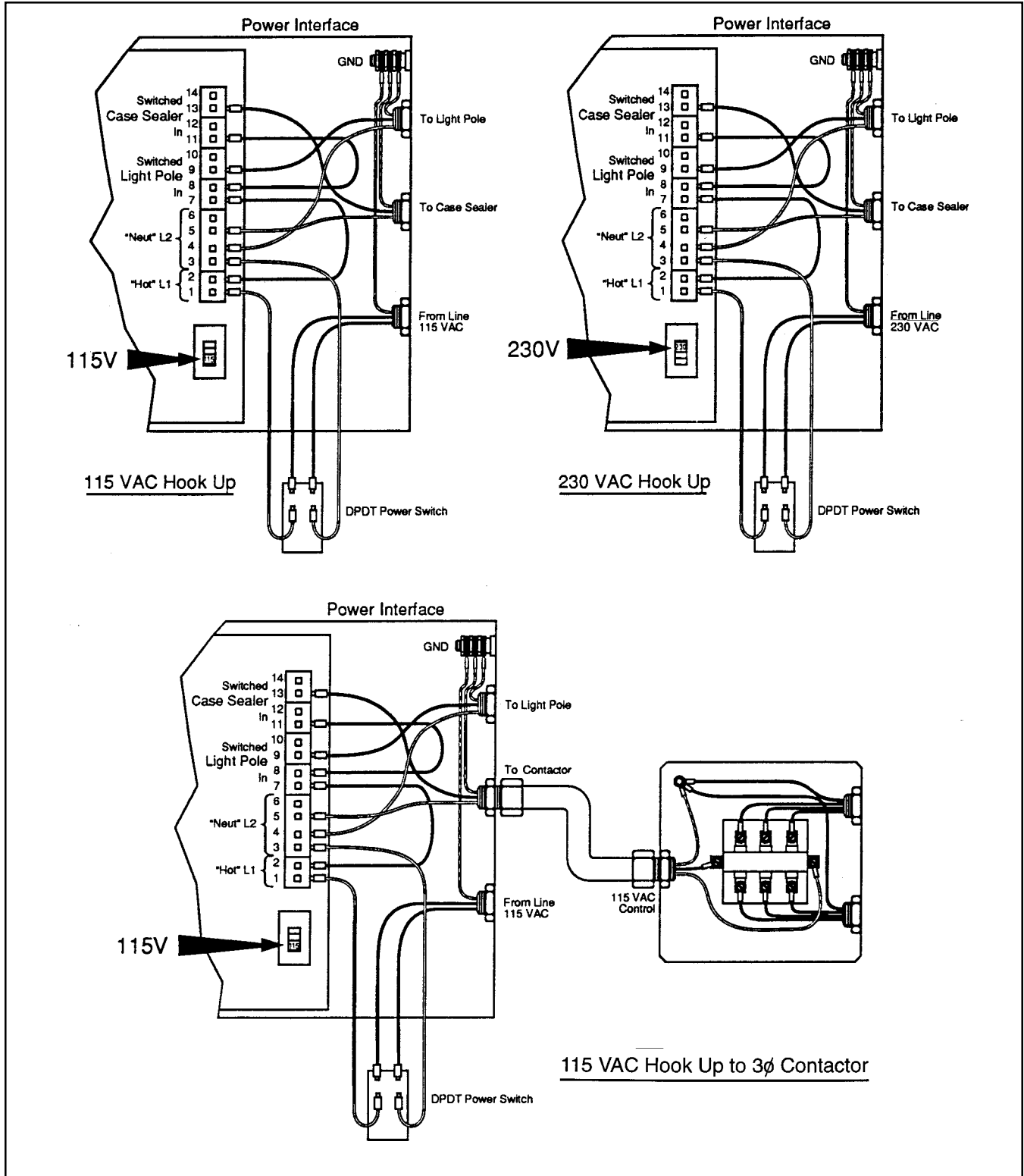


Figure 6-1 – Power Interface

# Electrical Diagram (Continued)

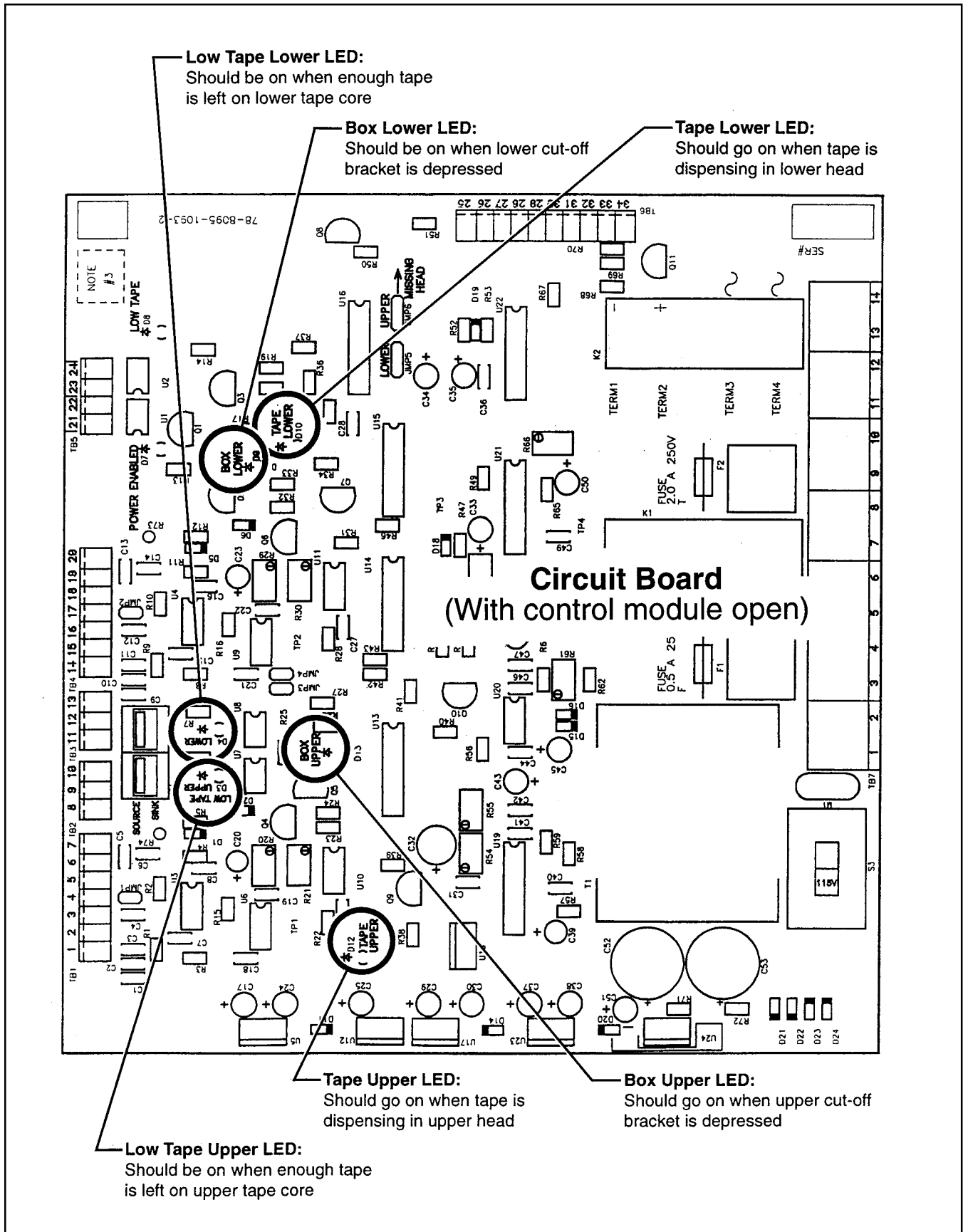


Figure 6-2 – Sensor Diagnostic LED's

## Options/Accessories

For additional information on the options/accessories listed below, contact your 3M Representative.

Part Number	Option/Accessory
78-8079-5586-5	3 Inch Adapter Kit (See page 42)
78-8079-5587-3	Spare Head Kit (See Notes)

**Notes:**

1. The Spare Head Kit does not come with extra low tape detection sensors. If it is necessary to move these sensors with the taping head, the low tape detection sensors must be purchased separately.
2. The Spare Head Kit is for 2 Inch Taping Heads only. To adapt this kit to 3 Inch Taping Heads, a 3 Inch Adapter Kit must be purchased separately.

## Replacement Parts And Service Information

### Recommended Spare Parts

It is suggested that the following spare parts be ordered and kept on hand:

Qty.	Part Number	Description
2	26-1009-7843-1	Fuse – 5 x 20 mm, .5 amp
2	26-1009-7841-5	Fuse – 5 x 20 mm, 2 amp
1	26-1009-8506-3	Bulb – Warning/Fault Beacon

## How To Order Replacement Parts

1. See Figures 7-1 and 7-2, pages 38 and 39 to determine individual part and reference number.
2. Refer to parts list pages 40 and 41 for part number and description.
3. Refer to first page of this instruction manual "Replacement Parts and Service Information", for replacement parts ordering information.

## Repair Service

Refer to the first page of this instruction manual "Service Instructions" for information on repair service.

# Parts Illustration – Tape Application Sensor Kit

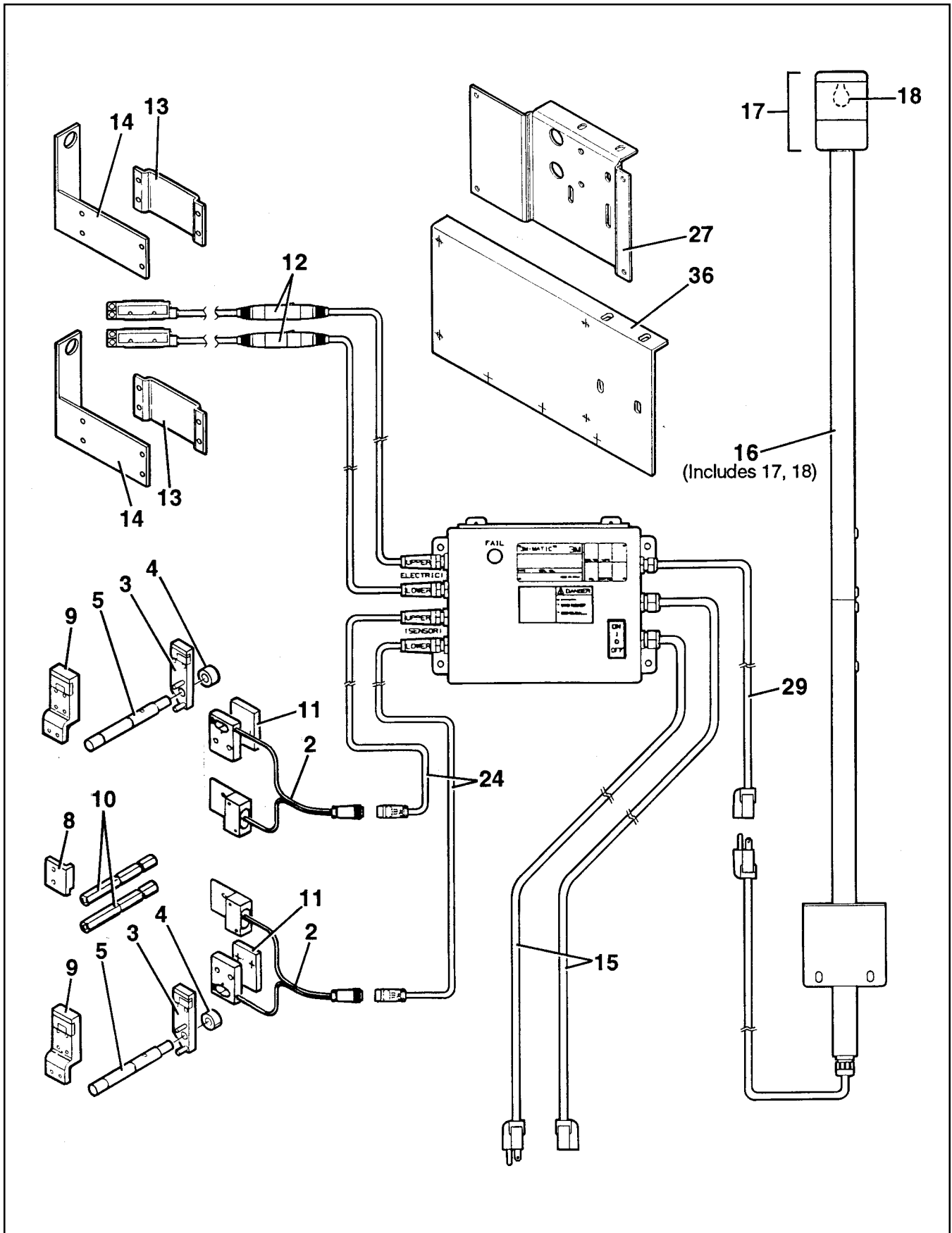


Figure 7-1

# Parts Illustration – Tape Application Sensor Kit

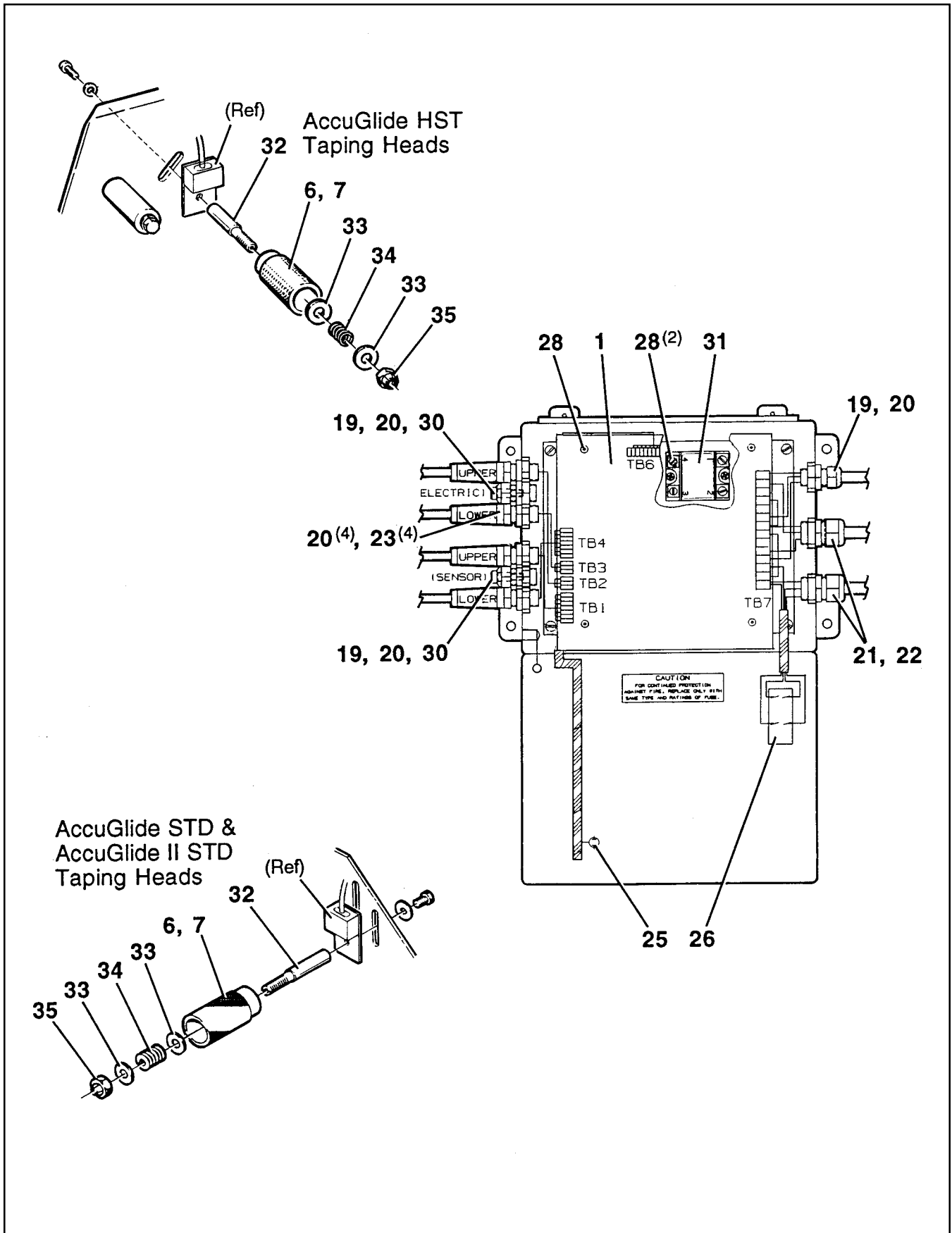


Figure 7-2

## Parts List – Tape Application Sensor Kit

Ref. No.	3M Part No.	Description
1	78-8095-1093-2	Circuit Board Assembly
2	78-8095-1099-9	Dual Sensor Assembly
3	78-8095-1108-8	Magnet Assembly – AccuGlide™ I & AccuGlide™ II
4	78-8095-1116-1	Bushing – Magnet
5	78-8095-1115-3	Shaft – Magnet
6	78-8095-1117-9	Roller – Tension (Counterclockwise Rotation)
7	78-8095-1136-9	Roller – Tension (Clockwise Rotation)
8	78-8095-1122-9	Template – Drilling
9	78-8095-1111-2	Magnet Assembly – AccuGlide™ HST
10	78-8095-1158-3	Spacer – Hex
11	78-8095-1114-6	Shim – HST Magnet Assembly
12	78-8095-1135-1	Photoelectric Interface
13	78-8095-1121-1	Plate – Clamping, Photoelectric
14	78-8095-1120-3	Bracket – Photoelectric
15	78-8095-1089-0	Cable – Power, Three-Conductor
16	78-8095-1134-4	Beacon Assembly
17	78-8076-4721-5	Lamp Assembly
18	26-1009-8506-3	Bulb
19	26-1009-7795-3	Fitting – Straight, Liquid Tight, Heyco #3229
20	26-1009-7796-1	Locknut – Nylon, Heyco #8461
21	26-1009-7794-6	Fitting – Straight, Liquid Tight, Heyco #3232
22	26-1011-3897-7	Locknut – Nylon, Heyco #8463
23	26-1009-7792-0	Fitting – Pigtail, Liquid Tight, Heyco #3475
24	78-8095-1090-8	Cable Assembly – Sensor Interface
25	26-1009-8080-9	Indicator – Panel Mount LED
26	26-1009-8414-0	Switch/Circuit Breaker – DPST, 10A, 250V
27	78-8095-1153-4	Bracket – Mounting, Control Module
29	78-8095-1156-7	Cable – Beacon, Female

## Parts List – Tape Application Sensor Kit (Continued)

Ref. No.	3M Part No.	Description
31	26-1009-8401-7	Relay – Solid State, 25A Output Rating
32	78-8052-6564-8	Shaft – Tension Roller
33	78-8052-6566-3	Washer – Friction
34	78-8052-6567-1	Spring – Compression
35	78-8017-9077-1	Nut – Hex
36	78-8095-1280-5	Bracket – Mounting, Control Module

The following fasteners, etc, are not shown but are included with the Tape Application Sensor Kit.

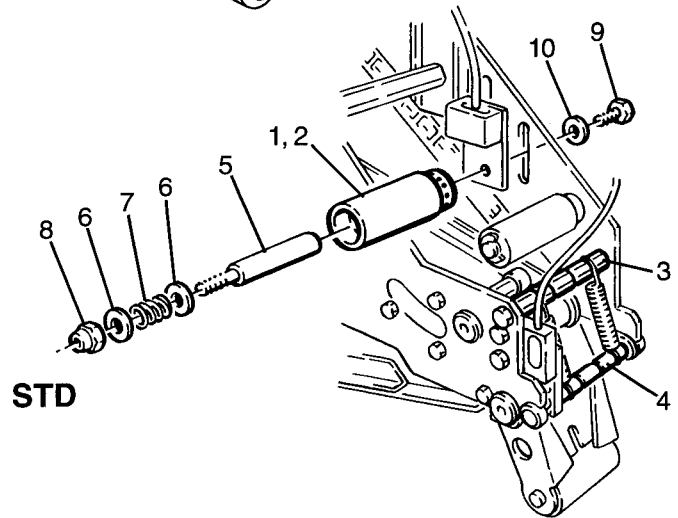
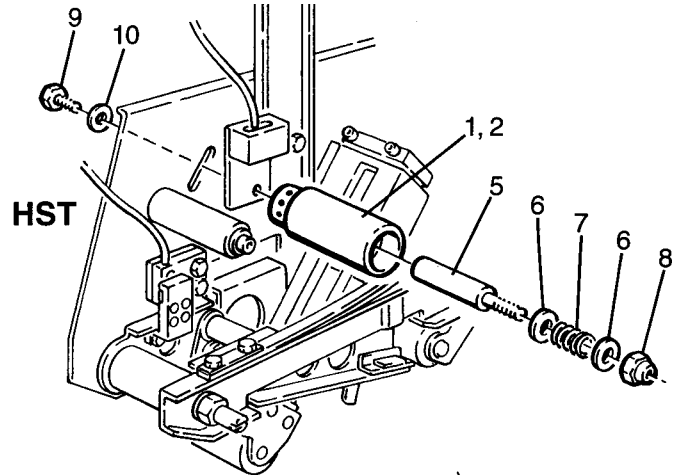
26-1009-8341-5	Screw – Soc Hd, M3 x 12 mm Lg.
26-1003-5822-0	Screw – Hex Hd, M5 x 20 mm Lg.
26-1003-5823-8	Screw – Hex Hd, M5 x 25 mm Lg.
26-1003-5829-5	Screw – Hex Hd, M6 x 12 mm Lg.
26-1003-5841-0	Screw – Hex Hd, M8 x 16 mm Lg.
26-1009-3592-8	Washer – Lock, Ext Tooth, M5
26-1008-5460-8	Washer – Lock, Ext Tooth, M6
26-1004-4659-5	Nut – Hex, M5
26-1003-6903-7	Nut – Hex, M6
26-1009-8344-9	Screw – Soc Hd, M5 x 10 Lg.
26-1002-6288-5	Screw – Pan Hd, Phil Dr, M3 x 12 mm Lg.
26-1004-5504-2	Washer – Plain, M5
26-1004-5509-2	Washer – Plain, M6
26-1004-5507-5	Washer – Plain, M8
26-1002-6259-6	Screw – Pan Hd, Phil Dr, M5 x 20 mm Lg.
26-1009-7356-4	Screw – Soc Hd, M5 x 20 mm Lg.
26-1003-6901-1	Nut – Hex, M3
26-1002-6286-9	Screw – Pan Hd, Phil Dr, M3 x 8



# 3M-Matic™

## P/N 78-8079-5586-5 3-Inch Adapter Kit (Tape Application Sensor)

For use on 3M-Matic™  
AccuGlide™ STD, AccuGlide™ II STD, or  
AccuGlide™ HST Upper and Lower  
3-Inch Taping Heads



### Contents of Kit (See illustration above)

Ref.	Part No.	Description	Qty.
1	78-8095-1179-9	Tension Roller – Upper Taping Head	1
2	78-8095-1181-5	Tension Roller – Lower Taping Head	1
3	78-8095-1184-9	Spacer – Hex	2
4	78-8095-1183-1	Shaft – Magnet	2
5	78-8054-8796-0	Shaft – Tension Roller	2
6	78-8052-6566-3	Washer – Friction	4
7	78-8052-6567-1	Spring – Compression	2
8	78-8017-9077-1	Nut – Self Locking, M10	2
9	26-1003-5829-5	Screw – Hex Hd, M6 x 12	2
10	26-1000-0010-3	Washer – Plain, M6	2

### How To Order Replacement Parts

1. Order by part number, description, kit name and kit part number.
2. Replacement parts and part prices available direct from:

**3M Tape Dispenser Parts**  
241 Venture Drive  
Amery, WI 54001-1325

**800/344 9883**  
**FAX #715/268 8153**

**Minimum billing on parts orders will be \$25.00.**  
**Replacement parts prices available on request.**  
**\$10.00 restocking charge per invoice on returned parts.**