

Instructions and Parts List

3M-Matic™

100a

Type 19200

Adjustable Case Sealer with

AccuGlide™ II Taping Heads



Important Safeguards

Turn to page two
for operating
safety information.

Important

It is recommended you immediately order the spare parts listed on page 33. These parts are expected to wear through normal use and should be kept on hand to minimize production delays.

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3M Masking and Packaging Systems Division

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

3M

Replacement Parts and Service Information

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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Instruction Manual

100a Adjustable Case Sealer
Type 19200

Table of Content	Page
Equipment Warranty and Limited Remedy	ii
Description	1
Important Safeguards	2 - 5
Specifications	6 - 8
Set-Up Procedure	9 - 16
Receiving and Handling	10
Lower Outboard Tape Roll Mount, Alternate	10 - 11
Conveyor Bed Height	10 - 11
Tape Loading	12 - 14
Electrical Connection	15
Box Size Set-Up and Operation	15 - 16
Adjustments	18 - 22
Tape Web Alignment	18
Tape Drum Friction Brake	18
Applying Mechanism Spring	19
One-Way Tension Roller Assembly	19
Box Drive Belts	20 - 21
Tape Application Leg length	22
Maintenance	23 - 25
Blade Replacement	23
Replacing Box Drive Belts	23
Cleaning Of The Machine	24
Cut-Off Blade	24
Circuit Breaker	24
Lubrication	25
Blade Oiler Pad	25
Special Use Set-Up	26 - 27
Changing Tape Leg Length	26 - 27
Troubleshooting	28 - 30
Troubleshooting Guide	28 - 30
Electrical Diagram	31
Suggested Spare Parts	33
How To Order Replacement Parts	33
Repair Service	33
Options/Accessories	34
Replacement Parts Illustrations and Parts Lists	35 - 71
Frame Assemblies	(Yellow Section) 35 - 51
Taping Head Assemblies	(Green Section) 53 - 71

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:

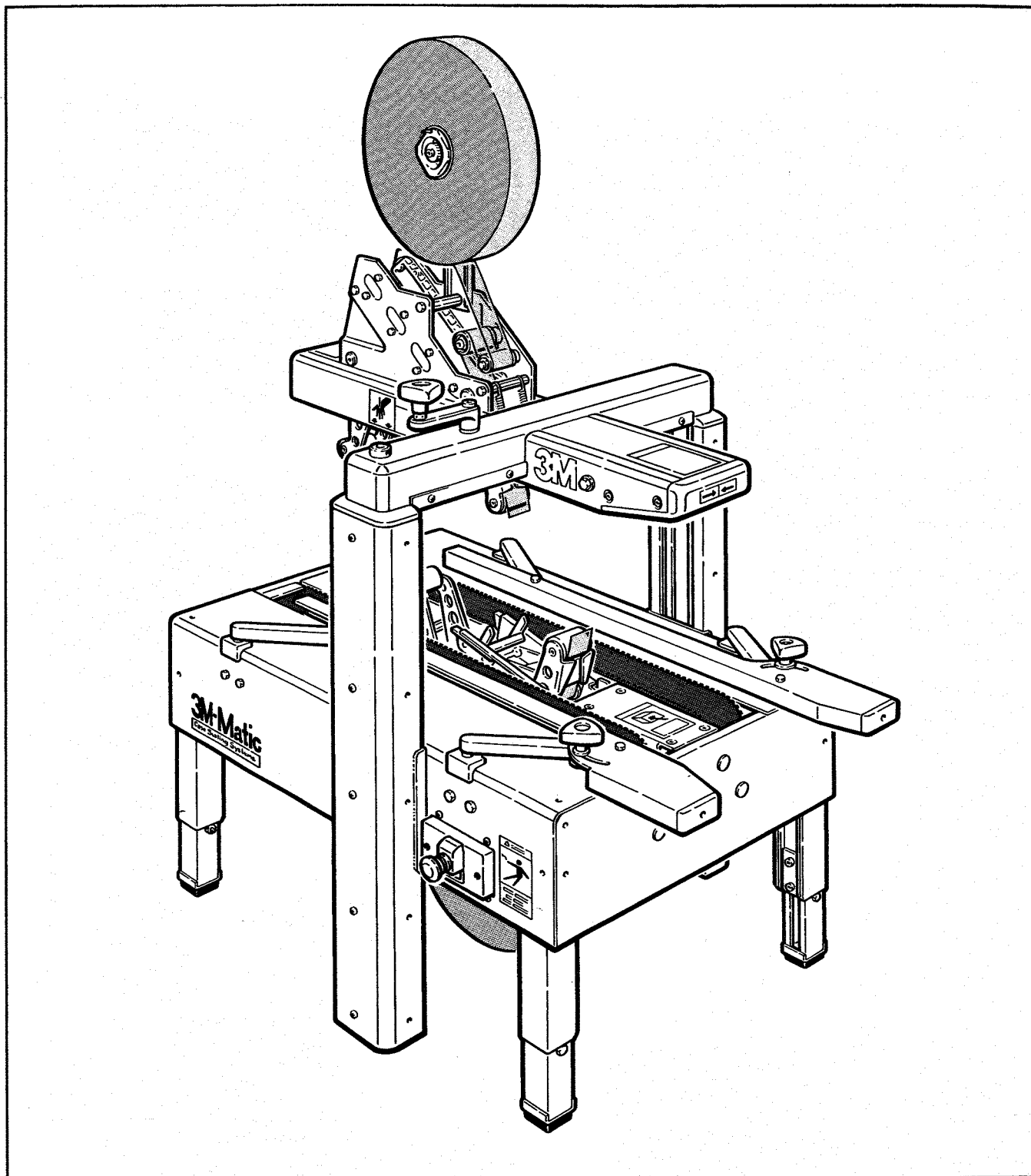
3M sells its 3M-Matic™ 100a Adjustable Case Sealer, Type 19200 with the following warranties:

1. The Taping Head knife blades, springs and rollers will be free from all defects for ninety (90) days after delivery.
2. All other Taping Head parts will be free from all defects for three (3) years after delivery.
3. The gearmotor will be free from all defects for one (1) year after delivery.
4. All other parts will be free from all defects for ninety (90) days after delivery.

If any part is proved to be defective within its 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 its 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.



3M-Matic™ 100a Adjustable Case Sealer, Type 19200

Description

The **3M-Matic™ 100a** Adjustable Case Sealer with **AccuGlide™ II** Taping Heads is designed to apply a "C" clip of **Scotch™** brand pressure-sensitive film box sealing tape to the top and bottom center seam of regular slotted containers. The 100a is manually adjustable to a wide range of box sizes (see "Specifications - Box Weight and Size Capacities", page 7).

Important Safeguards

There are three kinds of warning labels used on the case sealers.

The two illustrated labels (A-B) "Warning Sharp Knife", shown in **Figure 1-1**, are attached to the sides of the upper frame at the location of the cut-off blade on the upper taping head. Two similar labels are attached to the bed frame at the location of the cut-off blade on the lower tape head. The labels warn operators and service personnel of the very sharp knife used to cut the tape at the end of the tape application.

The "Warning - Sharp Knife" label (C) shown in **Figure 1-1**, is attached to the orange cut-off blade guard on both taping heads. The label warns the operator and service personnel of the very sharp knife located behind the guard and to keep hands out of this area except for tape loading and/or servicing the taping heads.

The taping heads are equipped with a orange blade guard that covers the blade. The taping heads should never be operated with the blade guards removed.

Turn air and electrical supplies off before servicing the taping heads.

The taping heads should not be washed down or subject to conditions causing moisture condensation on components.

The "Warning - Hazardous Voltage" label, shown in **Figure 1-2**, is attached to the frame next to the on/off switch control box. The label warns service personnel to unplug the power supply before attempting any service work on the case sealer.

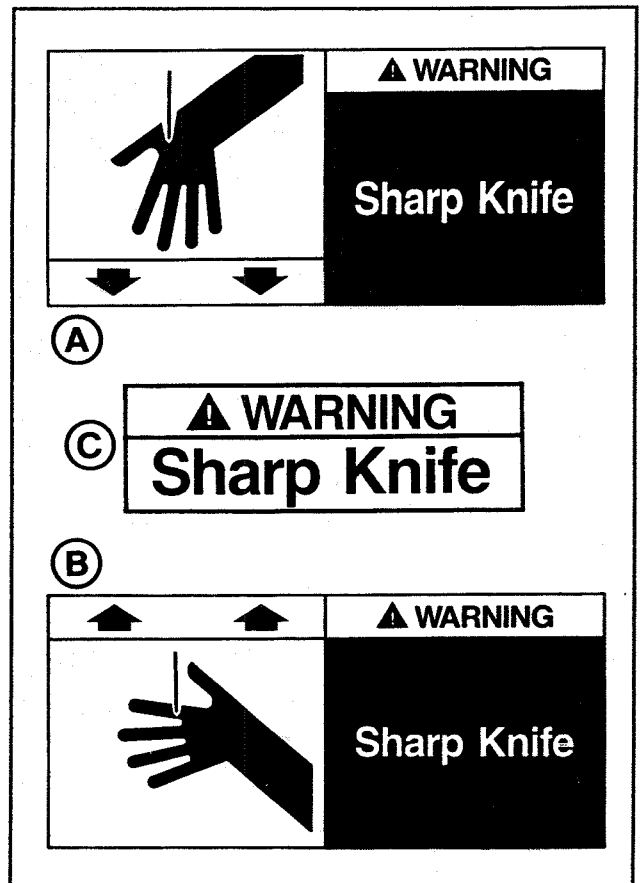


Figure 1-1 Knife Warning Label

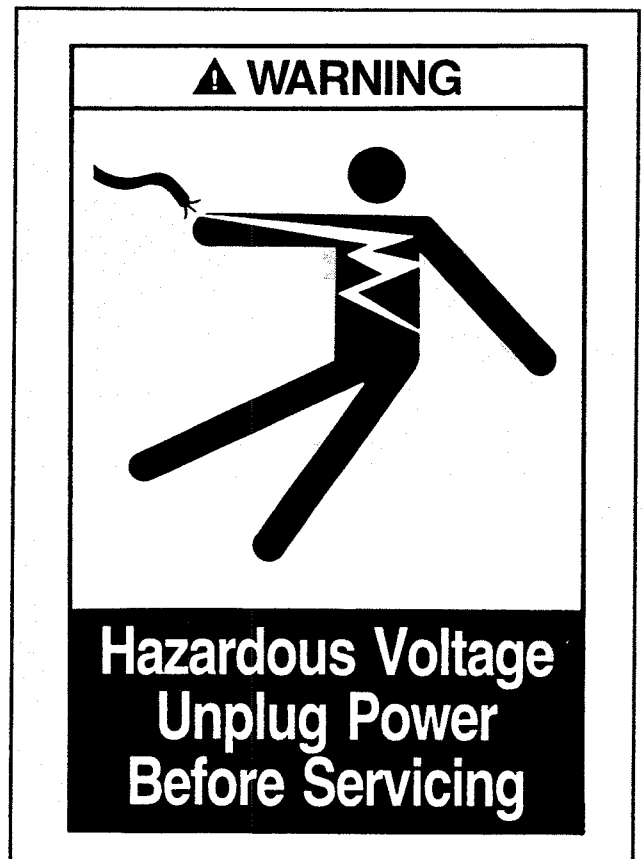


Figure 1-2 Electrical Warning Label

Important Safeguards (Continued)

The "Caution - Keep Hands Out Of This Area" label, shown in **Figure 1-3**, is attached to the center plate at the exit end of the bed frame. The label warns the operator to keep hands out of this area when the drive belts are running.

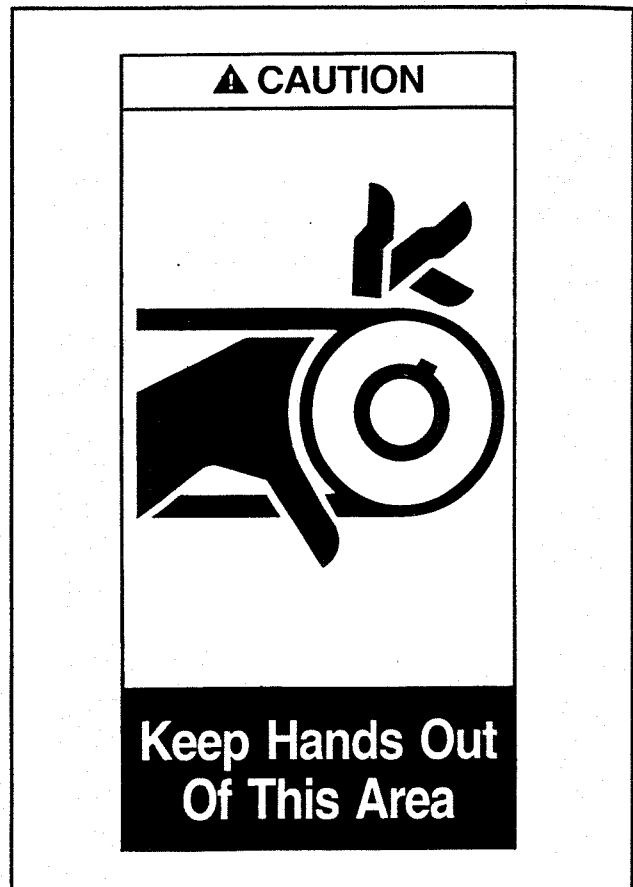


Figure 1-3 Hands Caution Label

The second "Caution - Keep Hands Out Of This Area" label, shown in **Figure 1-4**, is attached to the rear of the upper frame. It warns the operator to keep hands out of this area when the upper taping head mechanism is in operation.



Figure 1-4 Hands Caution Label

Important Safeguards (Continued)

The "Safety Instructions" label, shown in **Figure 1-5**, is attached to the front of the upper frame. The label provides convenient safeguard instructions for the operator and service personnel.

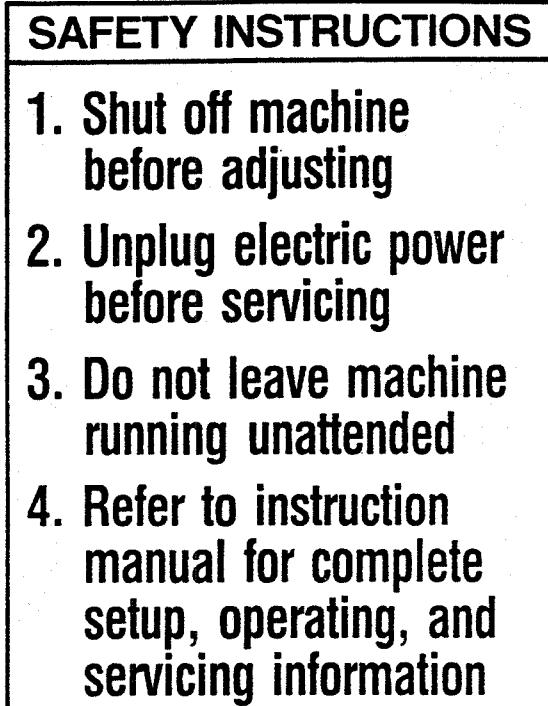
- 
- A rectangular label with a black border. At the top, the text "SAFETY INSTRUCTIONS" is written in bold, uppercase letters. Below this, there is a numbered list of four safety instructions in bold, uppercase letters.
- SAFETY INSTRUCTIONS**
- 1. Shut off machine before adjusting**
 - 2. Unplug electric power before servicing**
 - 3. Do not leave machine running unattended**
 - 4. Refer to instruction manual for complete setup, operating, and servicing information**

Figure 1-5 Safety Instruction Label

There are three operating note labels on the case sealer to remind the operator of important operating procedures.

The "Center Box Here" label, shown in **Figure 1-6**, is attached to the front of the upper frame to remind the operator of the proper box placement procedure.

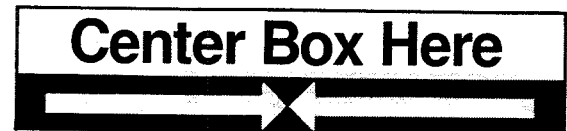


Figure 1-6 Center Box Label

Important Safeguards (Continued)

The "Notice - Feed Box From This End" label, shown in **Figure 1-7**, is attached to the center plate at the infeed end of the bed frame. It alerts the operator that this is the infeed end of the case sealer.

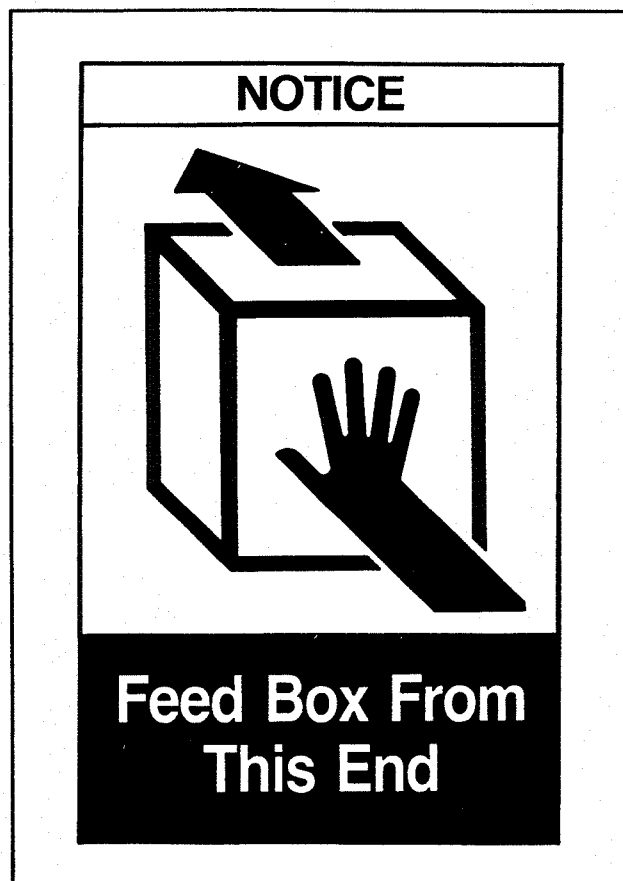


Figure 1-7 Box Feed Label

The "Tape Threading Label", shown in **Figure 1-8**, is attached to the left side of both the upper and lower taping heads. This label provides a convenient tape threading diagram. More detailed tape loading and threading information is provided in this manual in the set-up procedure section.

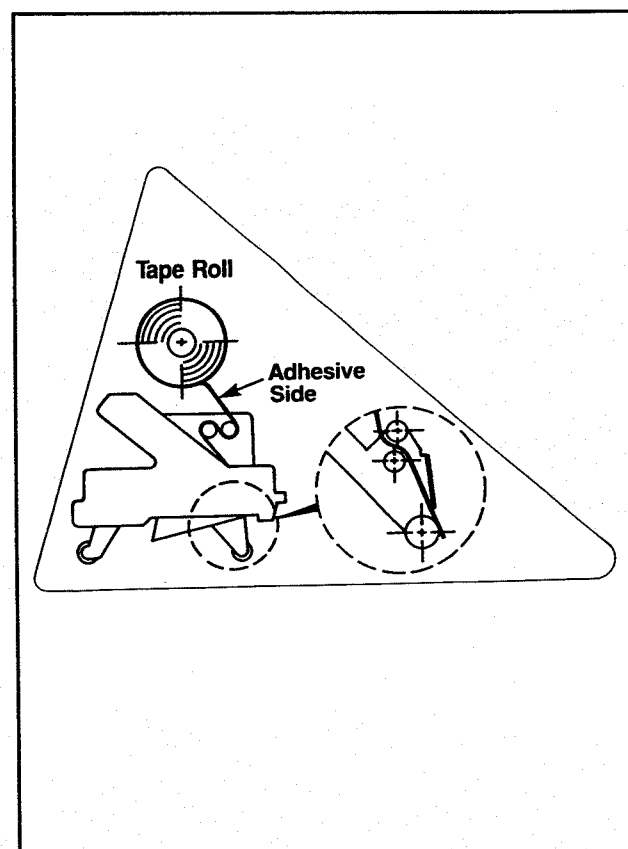


Figure 1-8 Tape Threading Label



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

Specifications

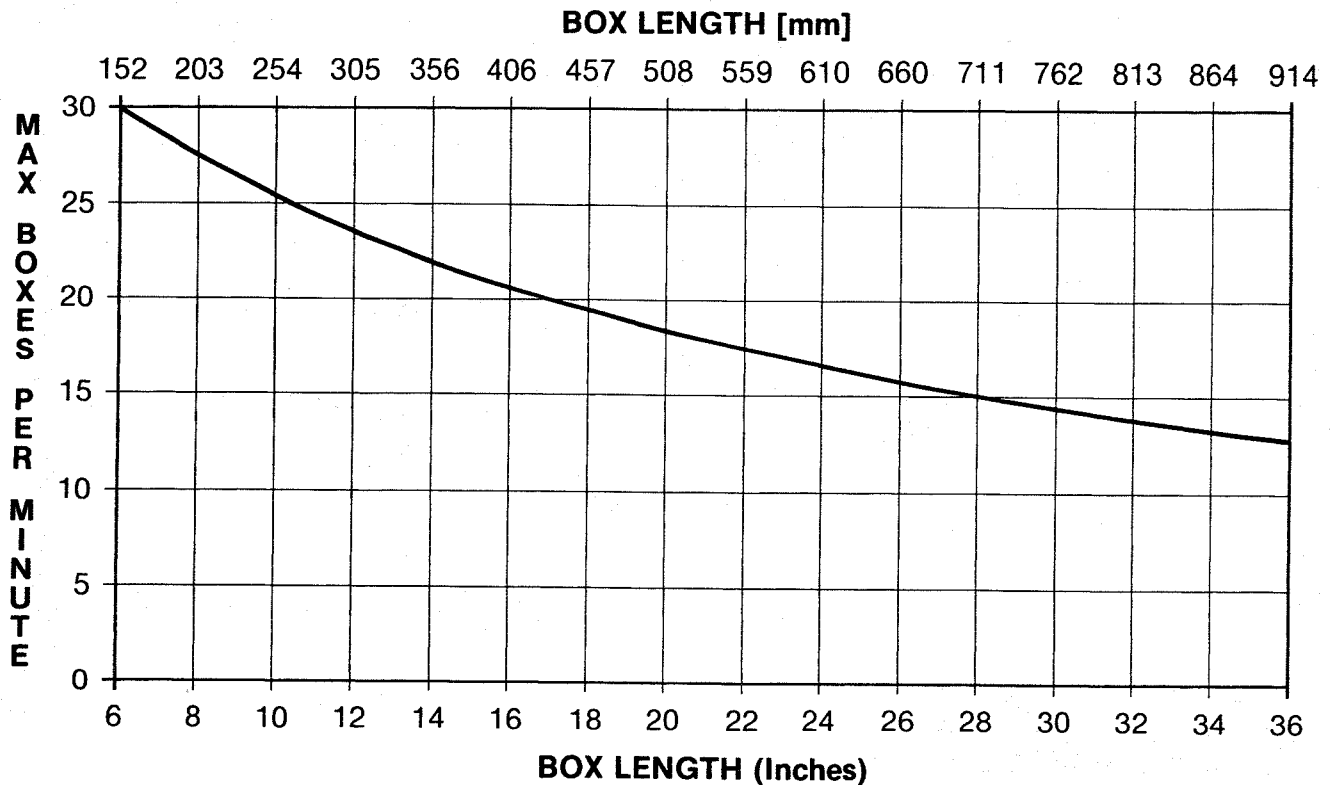
1. Power Requirements:

Electrical - 115 VAC, 60 Hz, 2.9 A (340 watts)

The machine is equipped with a standard neoprene covered power cord and a grounded plug. Contact your 3M Representative for power requirements not listed above.

2. Operating Rate:

BOXES PER MINUTE VS. BOX LENGTH



Actual production rate is dependent on operator's dexterity.

Boxes must be 18 inches [455 mm] apart minimum.

3. Operating Conditions:

Use in dry, relatively clean environments at 40° to 105° F [5° to 40° C] with clean, dry boxes.

IMPORTANT SAFEGUARD

MACHINE SHOULD NOT BE WASHED DOWN OR SUBJECTED TO CONDITIONS CAUSING MOISTURE CONDENSATION ON COMPONENTS.

4. Tape:

Scotch™ brand pressure-sensitive film box sealing tapes.

(Specifications continued on next page)

Specifications (Continued)

5. Tape Width:

1 1/2 inches or 36 mm minimum to 2 inches [50 mm] maximum

6. Tape Roll Diameter:

Up to 16 inches [405 mm] maximum on a 3 inch [76,2 mm] diameter core.
(Accommodates all system roll lengths of **Scotch™** brand film tapes.)

7. Tape Application Leg Length - Standard:

2 3/4 inches $\pm 1/4$ inch [70 mm ± 6 mm]

Tape Application Leg Length - Optional:

2 inches $\pm 1/4$ inch [50 mm ± 6 mm]

8. Box Board:

Style - regular slotted containers - RSC
125 to 275 P.S.I. bursting test, single wall or double wall B or C flute.

9. Box Weight and Size Capacities:

For use with center seam regular slotted containers.

A. Box Weight, filled - 5 lbs. [2,3 kg] **minimum**, 85 lbs. [38,6 kg] **maximum**.

B. Box Size:	Minimum	Maximum
Length -	6.0 inches [150 mm]	Unlimited
Width -	6.0 inches [100 mm]*	21.5 inches [550 mm]
Height -	4.8 inches [130 mm]**	21.5 inches [550 mm]

* **Note:** Cartons smaller than 10 inches or 250 mm in width may require more frequent belt replacement because of limited contact area.

** 3.5 inches [90 mm] height with heads adjusted to apply 2 inch [50 mm] tape leg lengths.

Note: The case sealer can accommodate most boxes within the size range listed above. However, if the box length (in direction of seal) to box height ratio is .75 or less, then several boxes should be test run to assure proper machine performance.

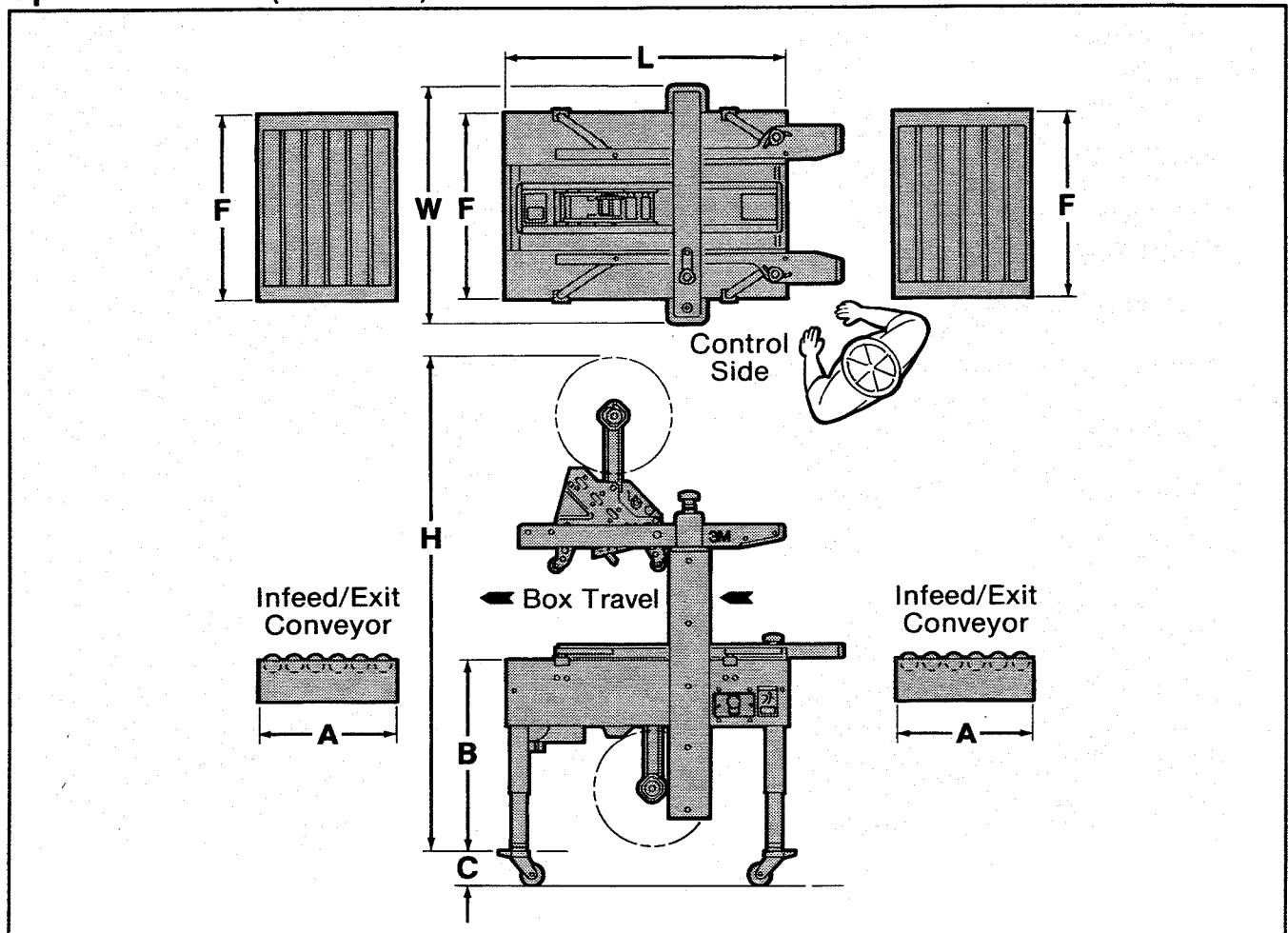
DETERMINE THE BOX LIMITATIONS BY COMPLETING THIS FORMULA:

BOX LENGTH IN DIRECTION OF SEAL **SHOULD BE GREATER THAN .75**
BOX HEIGHT

Any box ratio approaching this limitation should be test run to assure performance.

(Specifications continued on next page.)

Specifications (Continued)



10. Machine Dimensions:

	W	L	H	A*	B	C**	F
Minimum							
Inches [mm]	--	--	52 [1320]	--	22 1/2[570]	--	--

Maximum							
Inches [mm]	31 [790]	36 1/2 [903]	86[2190]	18[460]	30[760]	4[100]	24 1/2[620]

* Infeed/Exit conveyors are optional

** Casters are optional

Weight - 265 pounds [120 kg] crated (approximate)
225 pounds [102 kg] uncrated (approximate)

11. Set-Up Recommendations:

- > Machine must be level.
- > Customer supplied infeed and exit conveyors (if used) should provide straight and level box entry and exit.
- > Exit conveyors (powered or gravity) must convey sealed boxes away from machine.

Set-Up Procedure

It is recommended that the 100a case sealer be set-up and operated with product before placing it in the production line. This approach will allow your thorough review and familiarization with the 100a before subjecting it and operating personnel to a production situation where time for set-up, adjustments, and operator training usually becomes limited.

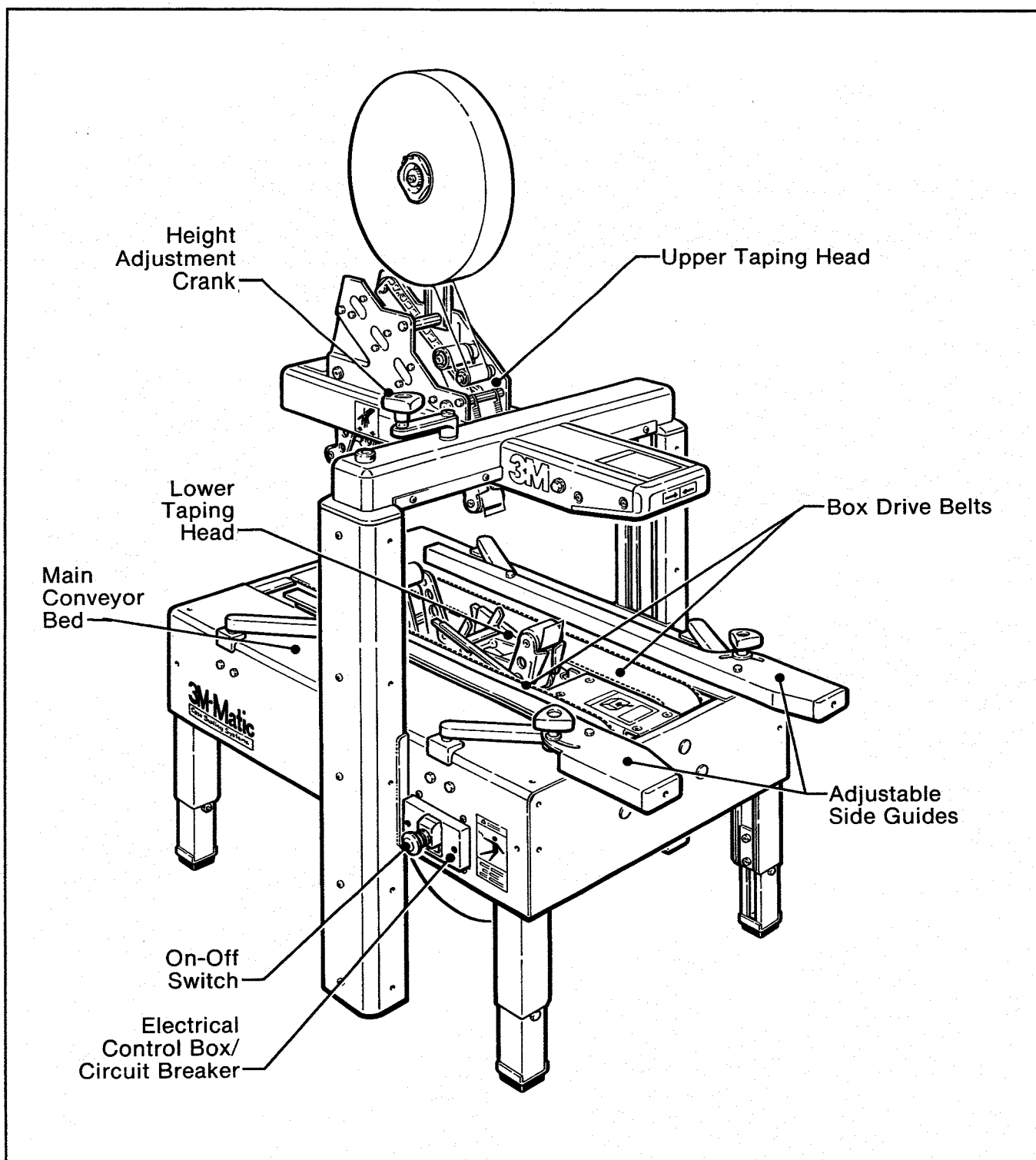


Figure 2-1 - 100a Case Sealer Components - Left Front View

Set-Up Procedure (Continued)

Receiving And Handling

After the machine has been uncrated, examine the case sealer for damage that might have occurred during transit. **If damage is evident, file a damage claim immediately** with the transportation company and also your 3M Representative.

The following instructions are presented in **the order recommended** for setting up and installing the case sealer, as well as **for learning the operating functions and adjustments**. Following them step by step will result in your thorough understanding of the machine and an installation in your production line that best utilizes the many features built into the case sealer.

1. Lift off fiberboard cover from pallet after removing staples at bottom.
2. Remove the hold down strapping.
3. Install the tape drum bracket on the upper taping head, as shown in Figure 2-2B.
4. Ensure that the tape drum bracket assembly, located on the lower taping head, is mounted straight down, as shown in Figure 2-3A. **The tape drum bracket assembly can be pivoted to provide clearance or for retrofit in certain cases.**

Conveyor Bed Height

The case sealer is equipped with **adjustable legs** that are located at the corners of the frame. The legs can be adjusted to obtain different machine conveyor bed heights from **22-1/2 inches [570 mm] minimum to 30 inches [760 mm] maximum**.

Note: When the caster kit is installed, the stop bolt can be removed to obtain a minimum bed height of 22-1/2 inches [570 mm].

Refer to Figure 2-3B and set the conveyor bed height as follows:

1. Block up the machine frame to allow adequate leg adjustment.
2. **Loosen, but do not remove**, two M8 x 1,25 mm socket head screws in one leg (use M6 hex wrench). Adjust the leg length for the desired conveyor bed height. **Retighten** the two screws to secure the leg. Adjust all four legs equally.

Set-Up Procedure (Continued)

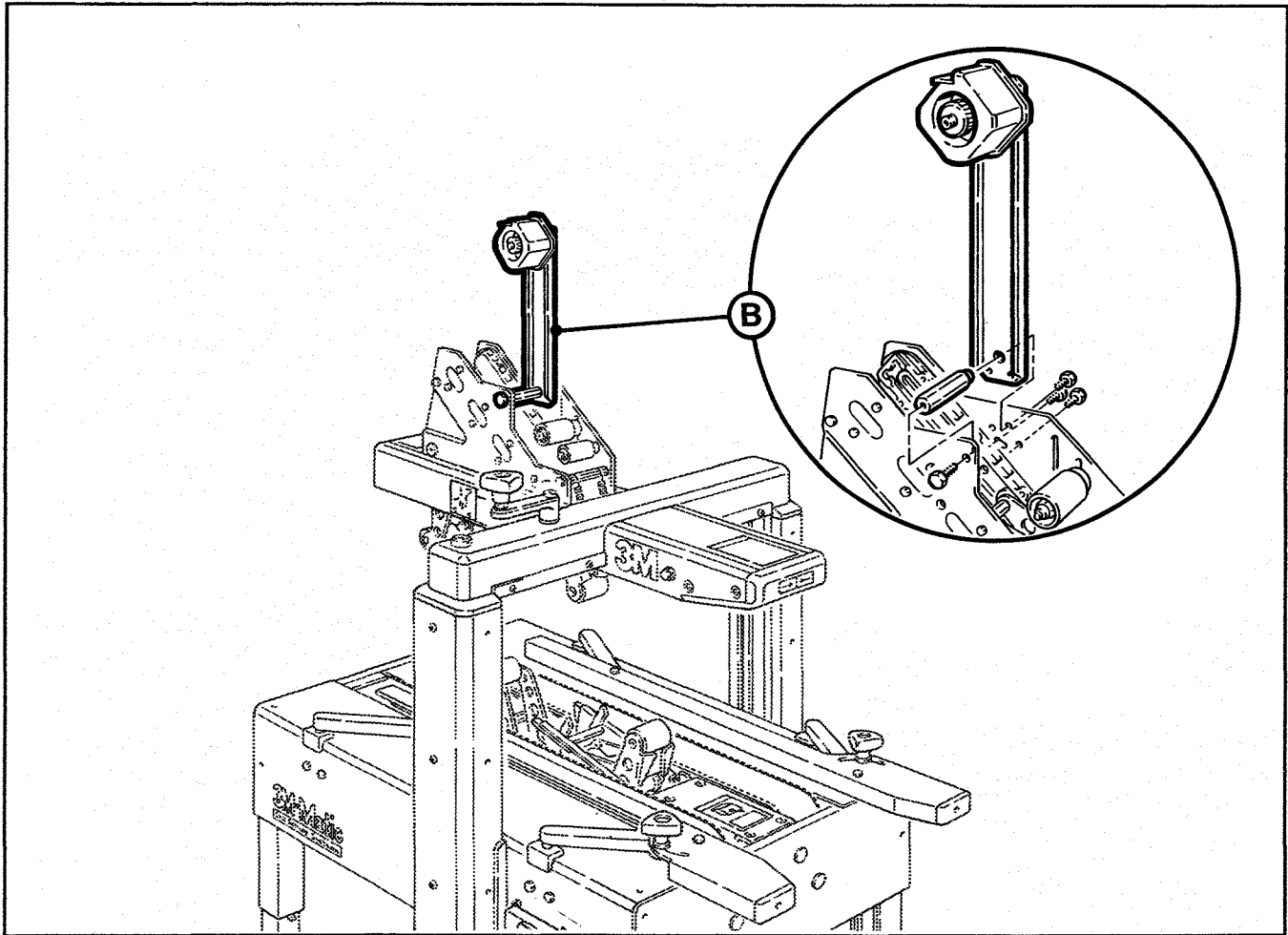


Figure 2-2 - Set-Up and Installation

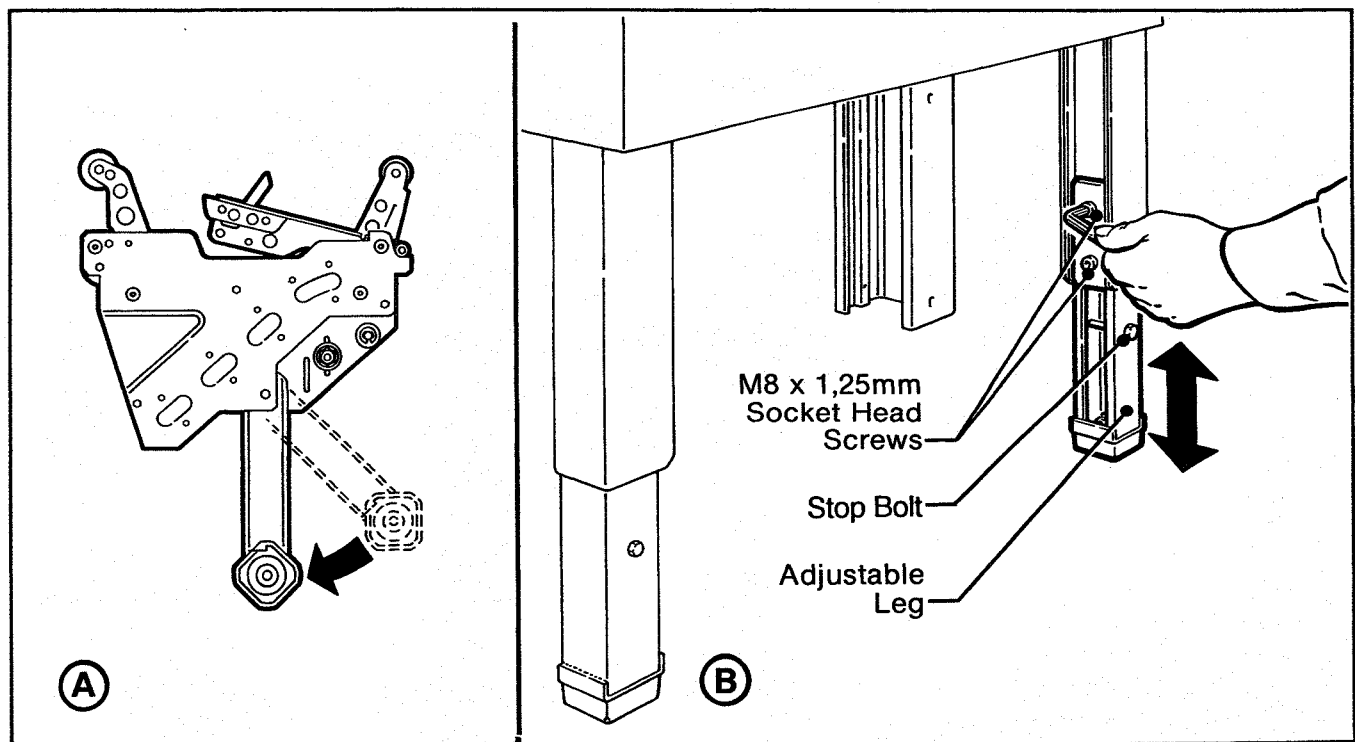


Figure 2-3 - Conveyor Bed Height Adjustment and Lower Tape Drum Bracket Position

Set-Up Procedure (Continued)

IMPORTANT SAFEGUARDS

1. BOTH THE UPPER AND LOWER TAPING HEADS UTILIZE EXTREMELY SHARP KNIFE BLADES. THE BLADES ARE LOCATED UNDER THE ORANGE BLADE GUARD WHICH HAS THE "WARNING - SHARP KNIFE" LABEL. BEFORE WORKING WITH THE TAPING HEADS OR ATTEMPTING TO LOAD THE TAPE, REFER TO FIGURES 2-4 AND 2-5 AND IDENTIFY THE BLADE LOCATION. KEEP HANDS OUT OF THESE AREAS EXCEPT AS NECESSARY TO SERVICE THE TAPING HEADS.
2. NEVER ATTEMPT TO WORK ON THE TAPING HEADS OR LOAD TAPE WHEN THE BOX DRIVE BELTS ARE RUNNING.

Tape Loading

The taping head accommodates up to 2 inch [50 mm] wide tape rolls. To apply 1 1/2 inch or 36 mm or 1 3/4 inch or 42 mm wide tapes, refer to "Adjustments - Tape Web Alignment", page 18 for set-up information.

A plastic threading leader is provided with each machine and it is recommended that the detailed instructions and sketches in this manual be referred to the first few times the unit is loaded and until the operator becomes thoroughly familiar with the tape loading operation.

Tape Loading - Upper Taping Head



WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING WORK ON THE TAPING HEADS OR TO LOAD TAPE. IF POWER CORD IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

1. It is first necessary to raise the upper taping head frame to a convenient working position.
2. For tape loading operations, use the plastic threading leader and follow the loading procedures (Figures 2-6 to 2-8) to complete the tape threading.

Lower Taping Head

1. For ease in set-up loading, first remove the lower taping head from the conveyor bed. Lift the head straight up from the conveyor bed.
2. The lower taping head is loaded and threaded in the same manner as the upper taping head. Follow the upper taping head tape loading procedure.
3. Replace the lower taping head.

Set-Up Procedure (Continued)

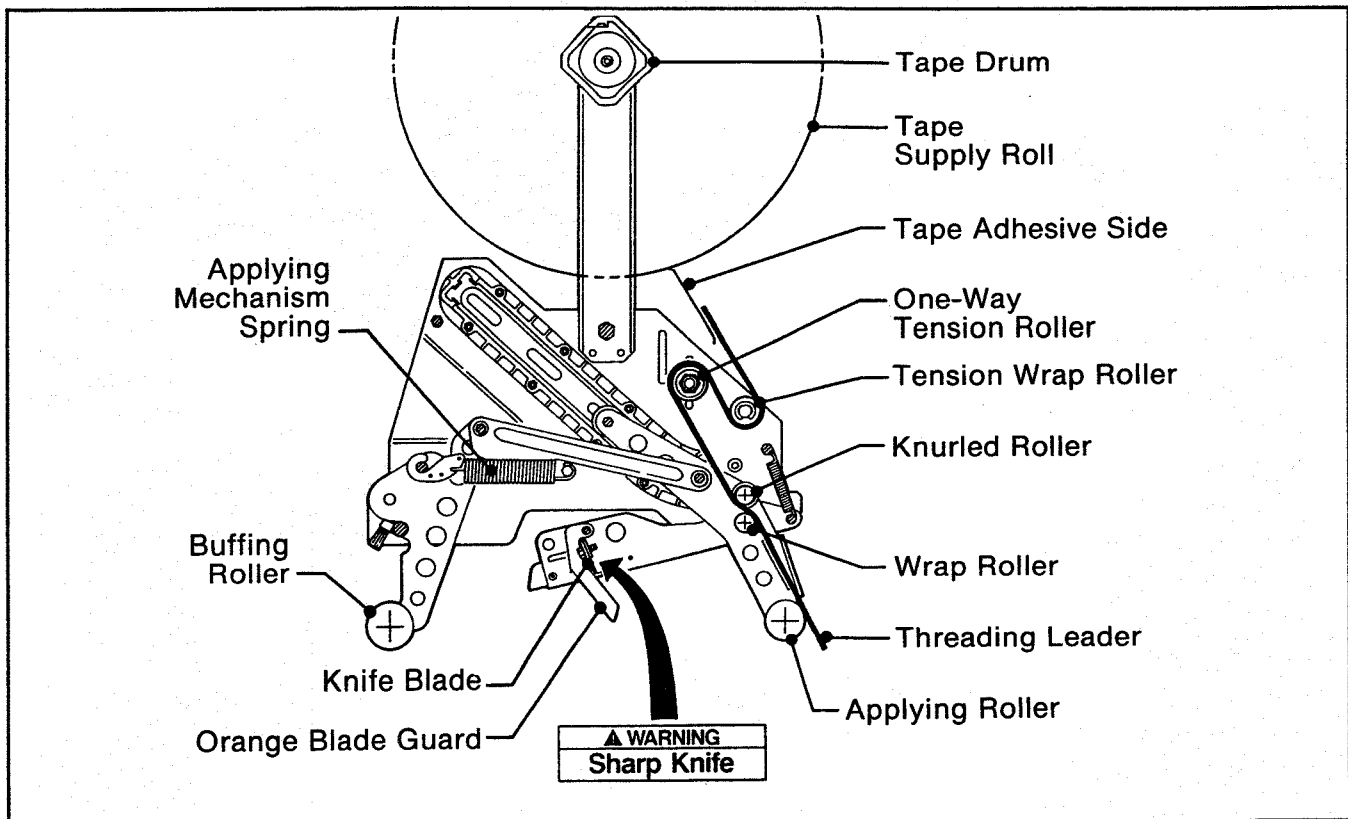


Figure 2-4 - Tape Threading Diagram, Upper Taping Head (Left Side View)

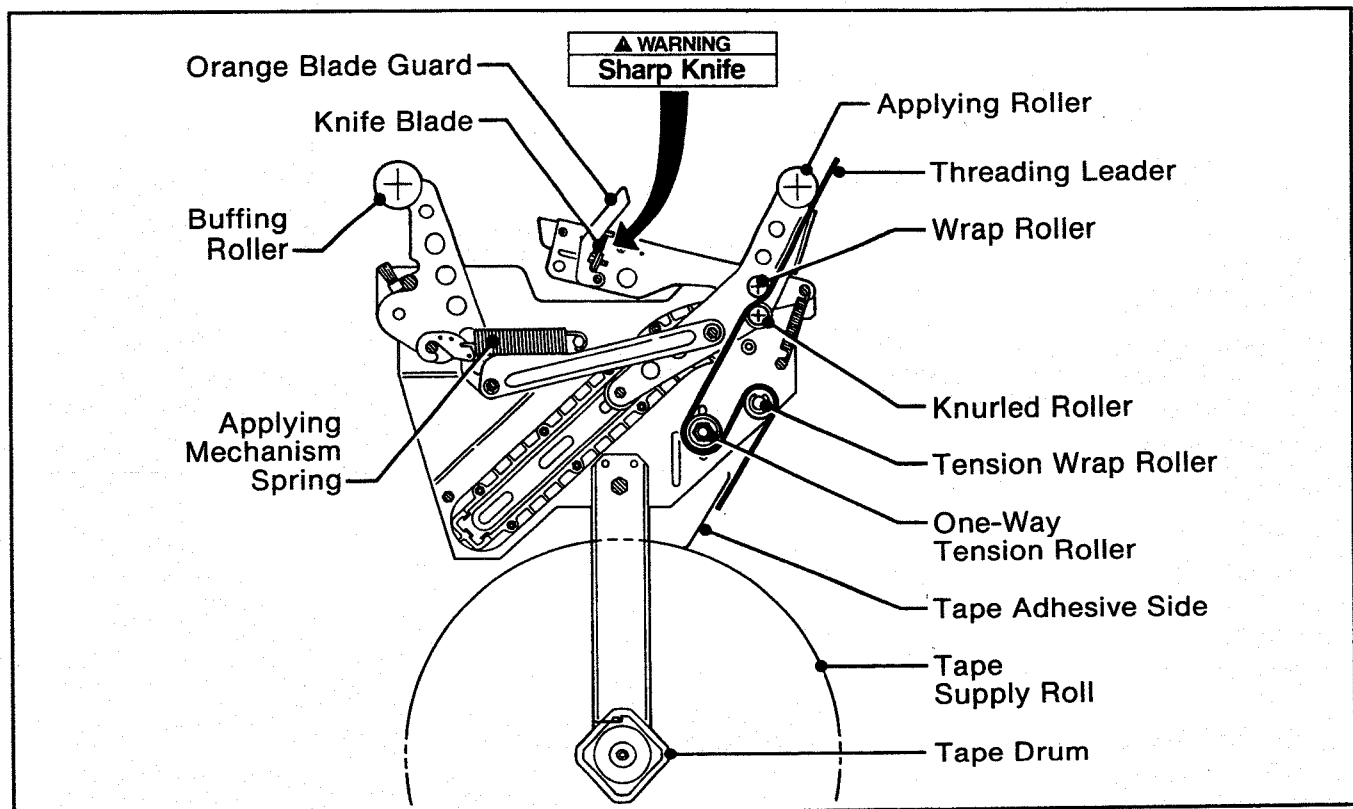


Figure 2-5 - Tape Threading Diagram, Lower Taping Head (Left Side View)

Set-Up Procedure (Continued)

Figure 2-6

Insert the plastic leader **downward** around rollers as illustrated.

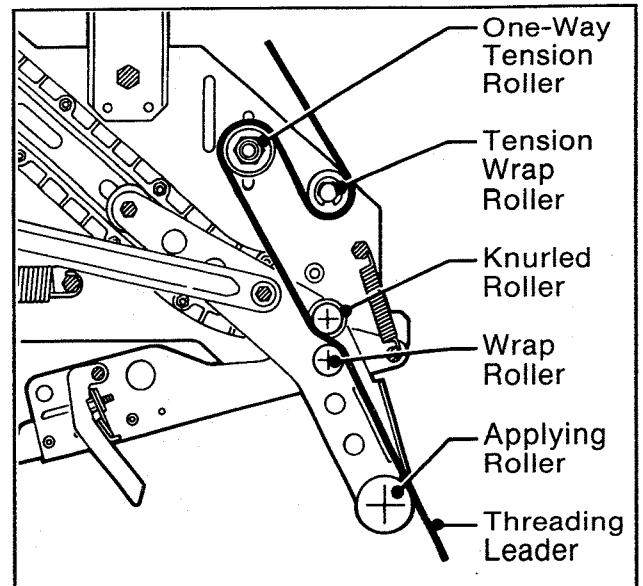


Figure 2-6 - Tape Loading

Figure 2-7

Place tape roll on drum to **dispense tape from bottom of roll adhesive side forward**. Seat tape roll fully against back flange of drum. Adhere tape lead end to upper end of threading leader as shown.

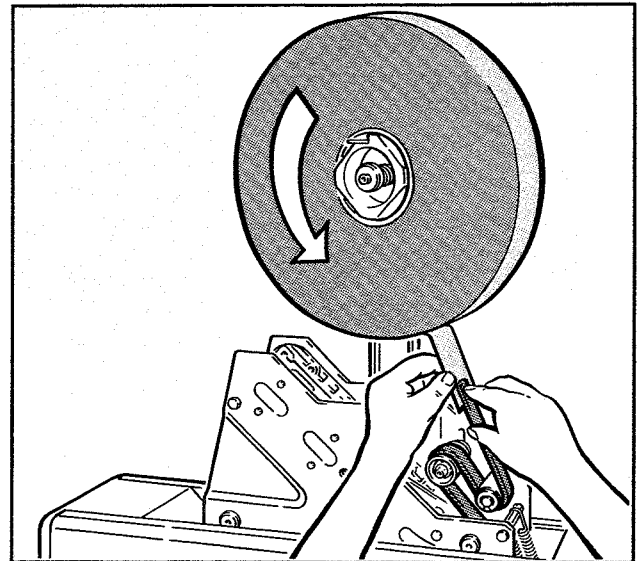


Figure 2-7 - Tape Loading

Figure 2-8

⚠ WARNING - USE CARE WHEN WORKING NEAR BLADES AS BLADES ARE EXTREMELY SHARP. IF CARE IS NOT TAKEN, SEVERE INJURY TO PERSONNEL COULD RESULT.

Manually turn tape roll to create slack tape while pulling threading leader through tape applying mechanism until leader is through and tape is in alignment with applying roller.

Excess tape can be cut with a scissors at applying roller.

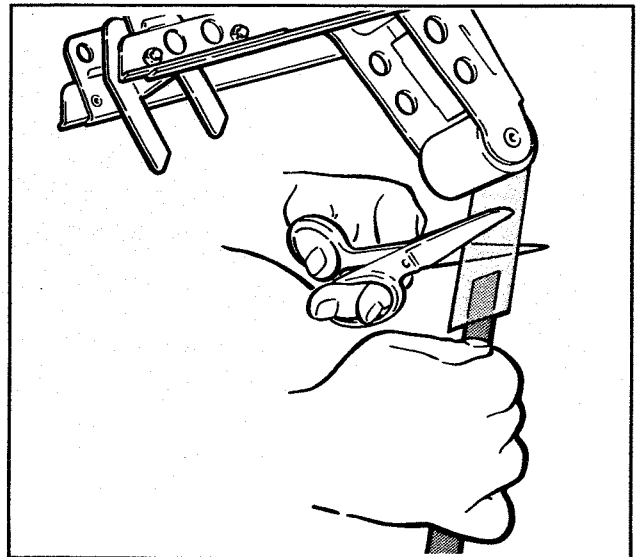


Figure 2-8 - Tape Loading

Set-Up Procedure (Continued)

Electrical Connection

The electrical control box, shown in Figure 2-1, contains the **"On-Off" switch** with **pre-set** circuit breaker and can be located on either side of the main conveyor for customer operating convenience. An 8 foot [2,4 m] standard **three conductor power cord with plug** is provided at the back of the electrical control box for **115 Volt, 60 Hz, 20.0 Amp** electrical service. **The receptacle providing this service shall be properly grounded.** Before the power cord is plugged into **115 Volt, 60 Hz outlet**, make sure the switch is **"Off"** and that all **packaging materials and tools** are removed from the machine.

Note - Machines outside the U.S. may be equipped with 220/240 Volt, 50 Hz systems, or other electrical requirements compatible with local practice.

Box Size Set-Up and Operation

Figure 2-9

Once both taping heads are loaded with tape, the upper taping head can be positioned for the box height being sealed by means of the **height adjustment crank**. Turn **clockwise** to lower head, **counterclockwise** to raise head.

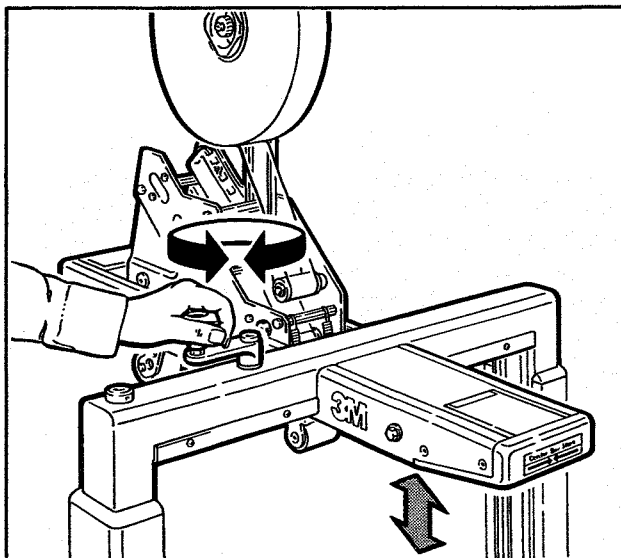


Figure 2-9 - Box Size Set-Up

Figure 2-10

Place box on infeed end of frame bed with both top and bottom flaps folded and insert under upper head ski approximately **6 inches or 50 mm**. Lower the head until all flaps are fully closed. Align box top flap center seam with **arrows** on front of ski.

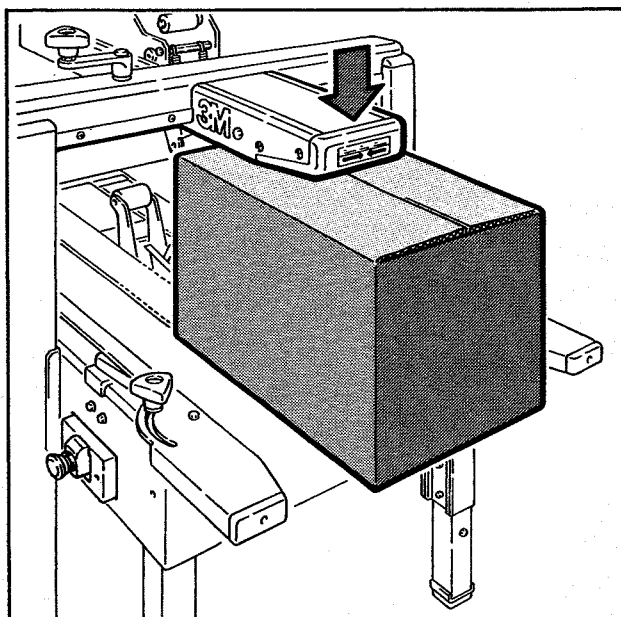


Figure 2-10 - Box Size Set-Up

Set-Up Procedure (Continued)

Figure 2-11

Move side guides against each side of box to hold box in position, centered on **arrows** on front of ski. Tighten hand knobs to secure side guides.

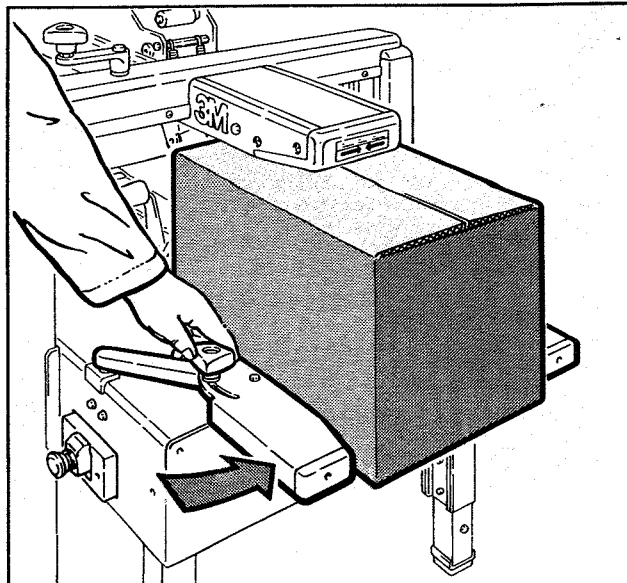


Figure 2-11 - Box Size Set-Up

Figure 2-12

Turn electrical switch to "On" to start drive belts. Move box forward under upper taping head until it is taken away by drive belts. If box is hard to move under head or is crushed, **raise** head slightly. If box movement is jerky or stops under upper head, **lower** top head slightly to add more pressure between box and drive belts.

Note: Upper head has unique feature for overstuffed boxes. The head will raise up to 1/2 inch [13 mm] to compensate for this type of condition.

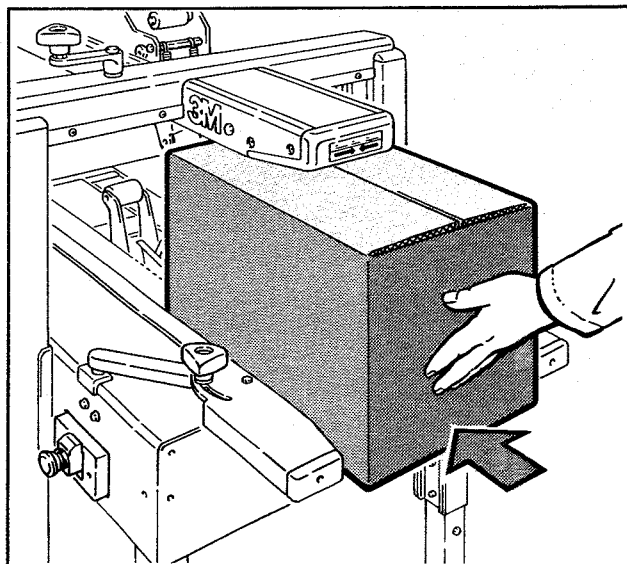


Figure 2-12 - Operation

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Adjustments



WARNING - TURN OFF ELECTRICAL POWER AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING ADJUSTMENTS. IF POWER CORD IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Tape Web Alignment

Figure 3-1

The tape drum assembly on each taping head is pre-set to accommodate 2 inch [50 mm] wide tape but is adjustable to provide alignment of narrower tapes. If adjustment is necessary to center the tape width on the centerline of the taping head, (and therefore box center seam), make adjustment as follows:

1. **Loosen** locking hex nut behind tape drum on tape drum shaft. Use an adjustable wrench or 25 mm open end wrench.
2. **Turn** tape drum shaft in or out to center the tape web (use 5 mm hex wrench).
3. **Tighten** locking hex nut to secure the adjustment.

No other components require adjustment for tape web alignment.

Tape Drum Friction Brake

Figure 3-2

The tape drum friction brake on each taping head is **pre-set** for normal operation to prevent tape roll over travel. Should tension adjustment be required, **turn the knurled nut on the shaft to vary compression of the spring**. Turn knurled nut **clockwise to increase** the braking force, and **counterclockwise to decrease** the braking force. Adjust to minimum tension that prevents excessive tape roll over travel.

Note: Excess braking force will cause poor tape applications and lead to tape tabbing on the trailing tape leg.

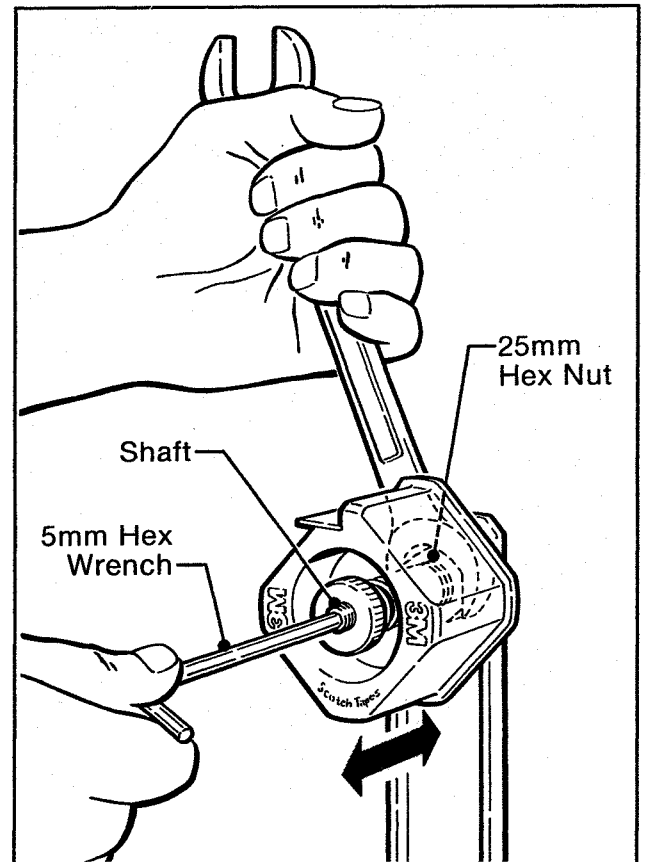


Figure 3-1 - Tape Web Alignment

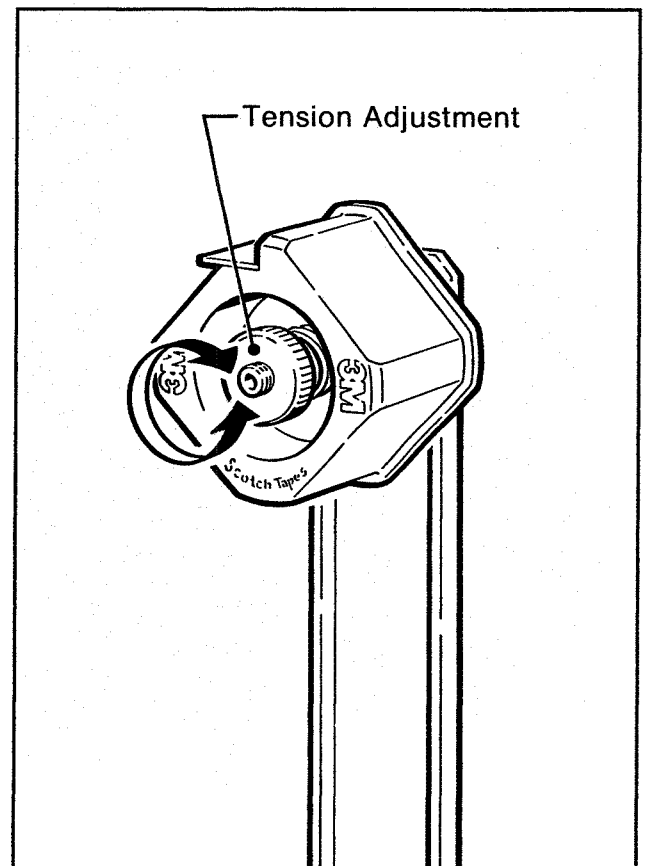


Figure 3-2 - Tape Drum Friction Brake

Adjustments (Continued)

⚠ WARNING - TURN OFF ELECTRICAL POWER AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING ADJUSTMENTS. IF POWER CORD IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Applying Mechanism Spring

Figure 3-3

The applying mechanism spring, shown in Figures 2-4 and 2-5, controls applying and buffing roller pressure on the box and returns the mechanism to the reset position. The spring pressure setting, as shown in Figure 3-3A, is for normal operation but is adjustable.

Removing the spring end loop from the spring holder and placing loop in other holes provided, as shown in Figure 3-3B, will adjust the spring pressure.

The spring pressure should be set to the minimum possible while maintaining good tape application.

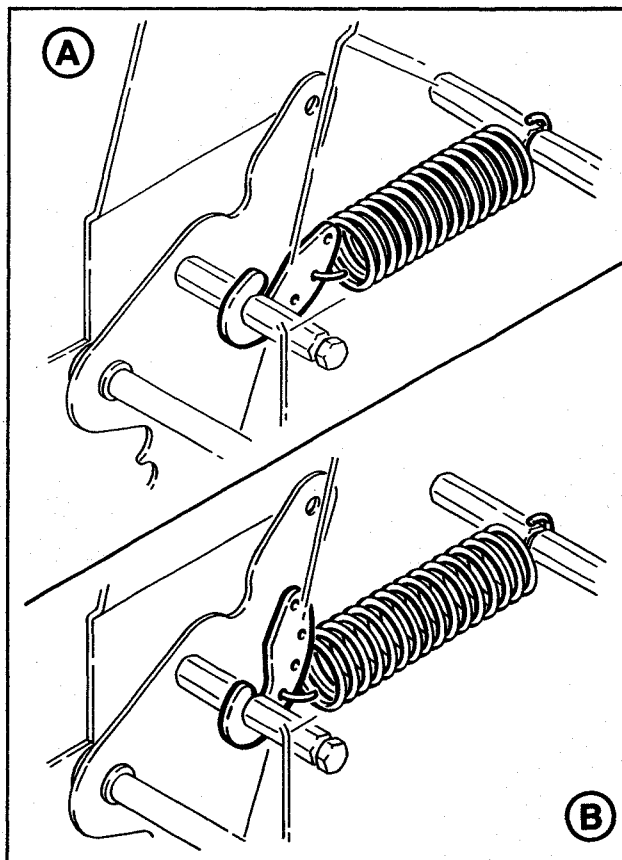


Figure 3-3 - Applying Mechanism Spring

One Way Tension Roller

Figure 3-4

The one way tension roller is factory set. When replacing this assembly, the roller must have **1 lb. [0,5 kg]** minimum tangential force when turning.

To Set Tension:

1. Wrap a cord or small strap (non-adhesive) 4-6 turns around the tension roller.
2. Attach a spring scale to the end of the cord or strap.
3. Turn the adjusting nut until a force of approximately 1-2 lbs. [0,5 kg to 0,9 kg] is required to turn the roller by pulling on the spring scale.

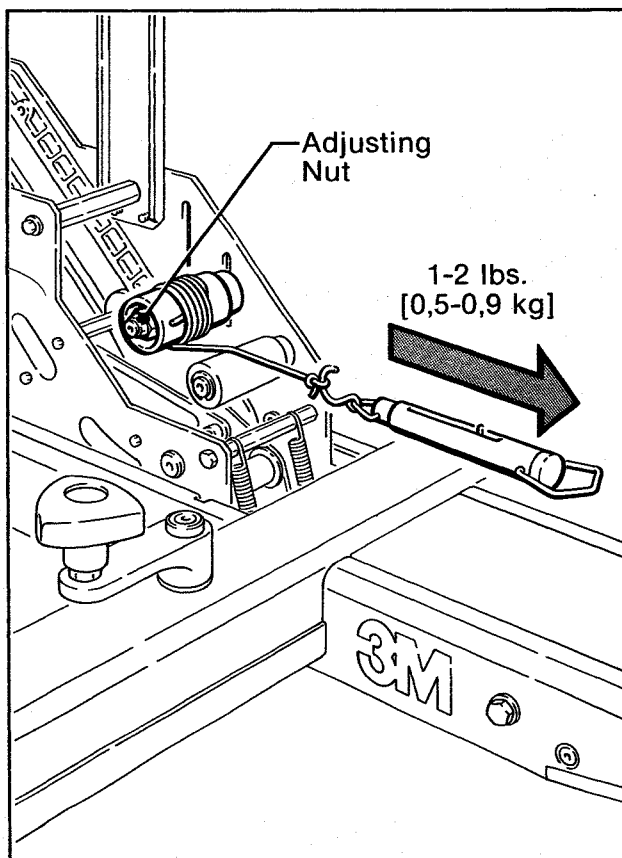


Figure 3-4 - One-Way Tension Roller

Adjustments (Continued)



WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING ADJUSTMENTS. IF POWER CORD IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Box Drive Belts

The two continuously moving drive belts convey boxes through the tape applying mechanism. The box drive belts are powered by an electric gear motor.

Tension adjustment of these belts may be required during normal operation. Belt tension must be adequate to positively move the box through the machine and they should run fully on the surface of the pulleys at each end of the frame. The idler pulleys on the infeed end are adjusted in or out to provide proper belt tension. Adjustment of these screws can be made by using the following steps to provide proper tension. Each belt is adjusted separately.

Belt tension is obtained by **tightening** the adjustment screw so that a moderate pulling force of **7 lbs. [3,5 kg]** applied at the midspan, as shown in Figure 3-5, will deflect the belt **1 inch [25 mm]**. This will assure **positive contact** between the belt and the drive pulley on the discharge end of the taping head.

Refer to Figure 3-6

- Step 1. **Remove and retain** center plate and four screws.
- Step 2. **Loosen, but do not remove,** lock nut M10 with a 17 mm open end wrench.
- Step 3. **Reset the tension** on the drive belt as needed. Adjust the tension screw (M8 socket head), **(clockwise to increase - counterclockwise to decrease)**. Remove and retain caps to access tension screw and use M6 hex wrench. Tighten lock nut to **secure tension setting**.
- Step 4. Replace center plate and secure with original screws.

Adjustments (Continued)

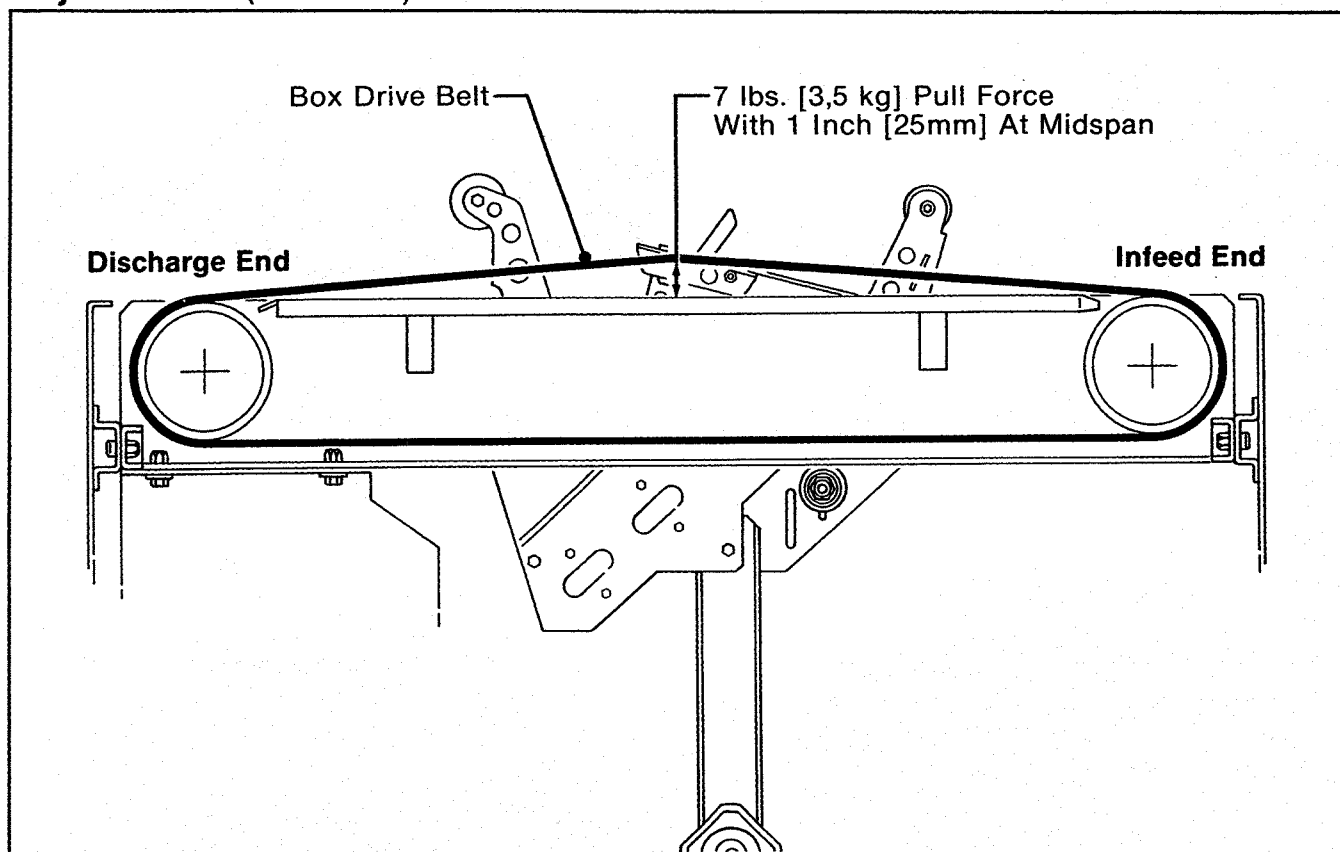


Figure 3-5 - Box Drive Belt Tension Adjustment (Left Side View)

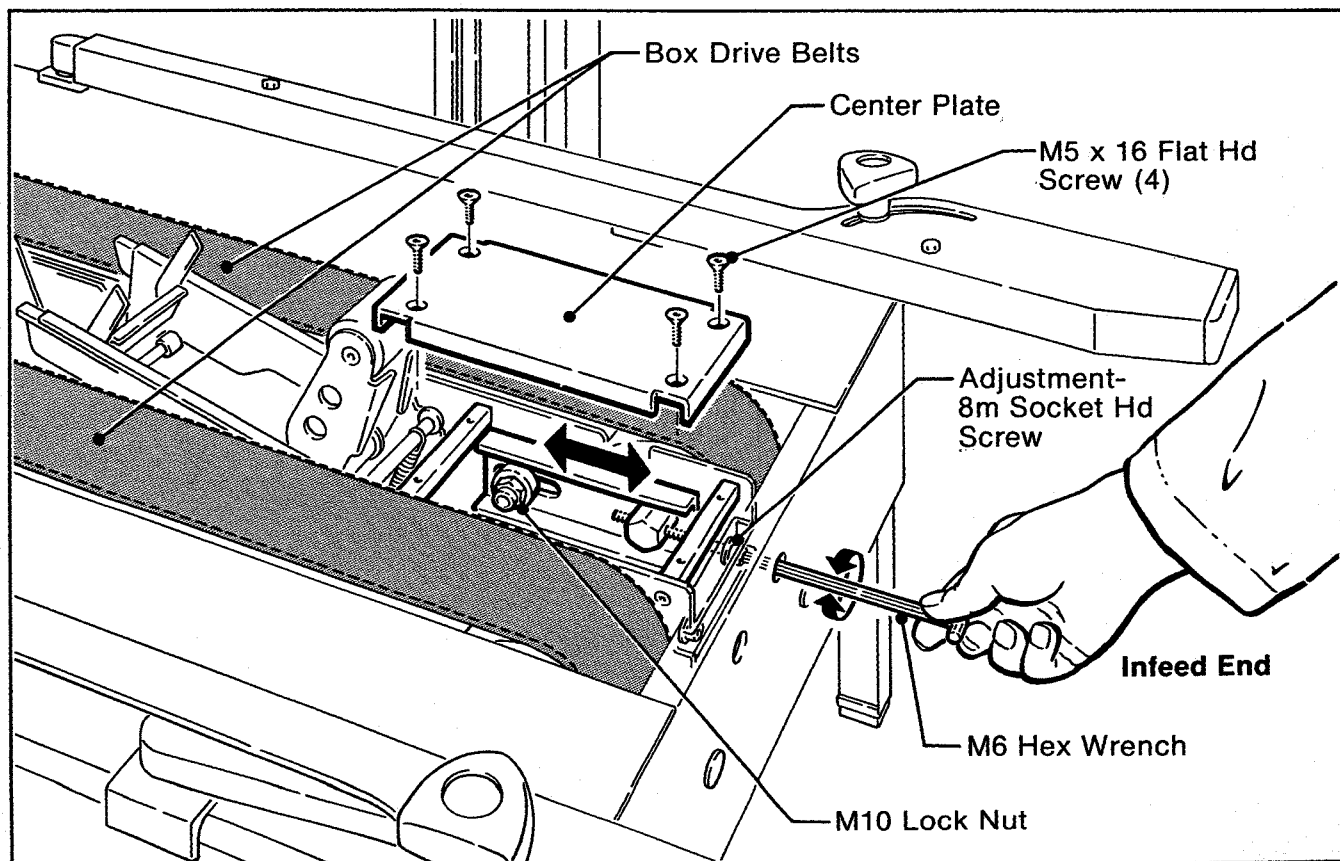


Figure 3-6 - Box Drive Belt Tension Adjustment (Frame Bed Infeed End)

Adjustments (Continued)



WARNING - TURN OFF ELECTRICAL POWER AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING ADJUSTMENTS. IF POWER CORD IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Tape Application Leg Length

Figure 3-7

For best tape application performance, the taping heads should maintain tape leg lengths of $2 \frac{3}{4}$ inch \pm $\frac{1}{4}$ inch [$70 \text{ mm} \pm 6 \text{ mm}$].

The **one-way tension roller** position on the taping heads (Figures 2-4 and 2-5) is adjustable to control the leading tape leg length.

Moving this roller farther away from the box top or bottom surface will decrease the leading leg length. Moving it closer to the box top or bottom surface will increase the leading leg length.

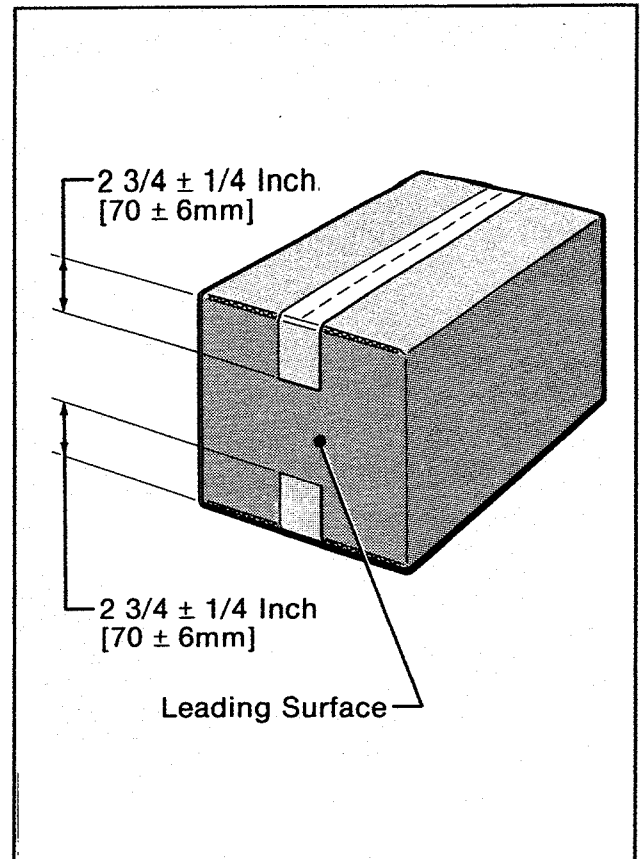


Figure 3-7 - Tape Application Leg Length

Maintenance

The case sealer has been designed for long, trouble free service. The machine will perform best when it receives **routine maintenance and cleaning**. Machine components that fail or wear excessively should be **promptly** repaired or replaced to prevent damage to other portions of the machine or to the product.

⚠ WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING MAINTENANCE. IF ELECTRICAL POWER IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Blade Replacement

Figure 4-1 (Upper and Lower Taping Heads)

⚠ USE CARE WHEN REPLACING BLADES AS BLADES ARE EXTREMELY SHARP. IF CARE IS NOT TAKEN, SEVERE INJURY TO PERSONNEL COULD RESULT.

1. Loosen, but do not remove the blade screws (A). Remove and discard the old blade.
2. Mount the new blade (B) with the beveled side away from the blade holder.
3. Bottom the blade slots against the screws. (This will position the blade at the correct angle). Tighten the blade screws to secure the blade.

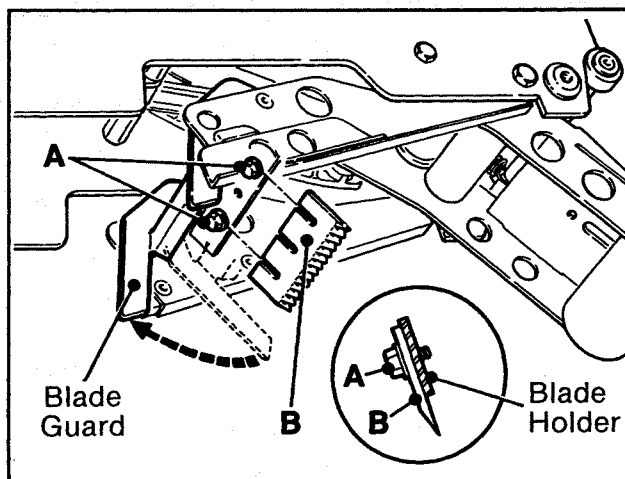


Figure 4-1 - Blade Replacement

Box Drive Belt Replacement

Figure 4-2

Note: 3M recommends the replacement of drive belts in pairs, especially if belts are unevenly worn.

To Remove Old Drive Belt:

1. Remove and retain center plate (A) and four screws.
2. Loosen, but do not remove lock nut (B).
3. Loosen tension screw (C) until all tension is removed.
4. Remove splicing pin (D) from old belt to remove and discard.
5. Place new belt over pulleys with laced splice at top. Insert splicing pin. **Note - pin must not extend beyond edge of belt.**
6. Adjust belt tension as explained in "Adjustments - Box Drive Belt Tension", Page 20.
7. Replace the center plate and secure with original fasteners.

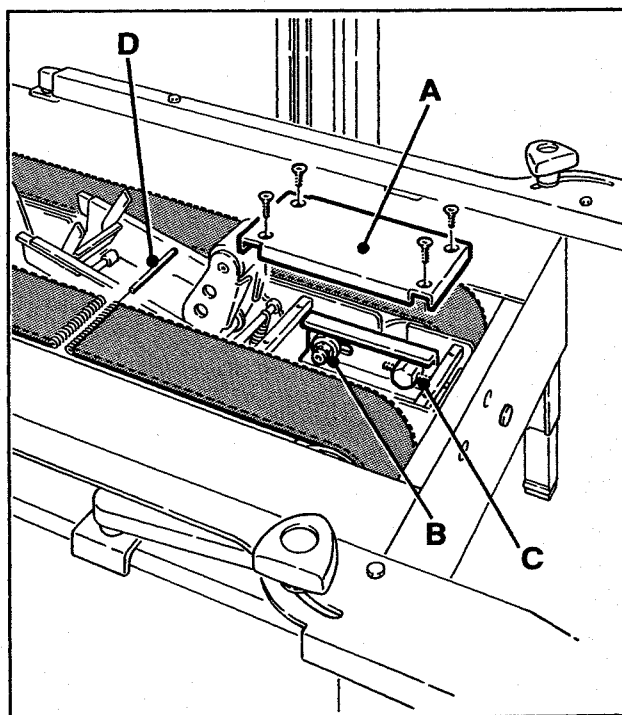


Figure 4-2 - Box Drive Replacement

Maintenance (Continued)



WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING MAINTENANCE. IF ELECTRICAL POWER IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Cleaning Of The Machine

NOTE: Never attempt to remove dirt by blowing it out with compressed air. This can cause the dirt to be blown inside the motor and onto sliding surfaces which may cause premature equipment wear. Never wash down or subject equipment to conditions causing moisture condensation on components. Serious equipment damage could result.

Regular slotted containers produce a great deal of **dust** and **paper chips** when processed or handled in equipment. If this dust is allowed to build-up on machine components, it can cause **component wear** and **overheating** of drive motor. The dust build-up can best be removed from the machine by a shop vacuum. Depending on the number and type of boxes sealed in the case sealer, this cleaning should be done approximately **once per month**. If the boxes sealed are dirty, or if the environment in which the machine operates is dusty, cleaning on a more frequent basis may be necessary. **Excessive** dirt build-up that cannot be removed by vacuuming should be wiped off with a **damp cloth**.

Cut-Off Blade

Should tape **adhesive build-up** occur, carefully wipe clean with oily cloth.

Circuit Breaker

The case sealer is equipped with a circuit breaker which trips the "**On/Off**" switch to tripped position. If circuit is **overloaded** and circuit breaker trips, **wait 2 minutes**, move to "**Off**", and turn "**On**". Located inside the electrical control box on the side of the main frame just below the conveyor bed, the circuit breaker has been **pre-set at 2.9 Amps** and requires no further maintenance.

Maintenance (Continued)

⚠ WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING MAINTENANCE. IF ELECTRICAL POWER IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Lubrication - Mechanical

Like most other equipment, the taping head must be properly lubricated to insure long, trouble free service. Most of the machine bearings are permanently lubricated and sealed and do not need to be greased. The drive motor is also permanently lubricated and should not require additional lubrication.

Figures 4-3 and 4-4 illustrate the taping head and frame points which **should be lubricated every 250 hours of operation**. Lubricate the rotating and pivoting points, noted by the arrows, (➡) with **SAE #30 non-detergent oil**. At the same time, a small amount of multipurpose grease should be applied to the end of each spring where the loop is secured at an eyelet, post, or hole noted by arrows (⇨).

Note: Wipe off excess oil and grease: it will attract dust and dirt which can cause premature equipment wear and jamming. Take care that oil and grease are not left on the surface of rollers around which tape is threaded, as it can contaminate the tape's adhesive.

Blade Oiler Pad

The taping heads are equipped with a blade oiler pad that has been **pre-lubricated** at the factory to provide a film of oil on the cut-off blade to reduce adhesive build-up. Apply **SAE #30 non-detergent oil** as needed. **SATURATE FELT OILER PAD.**

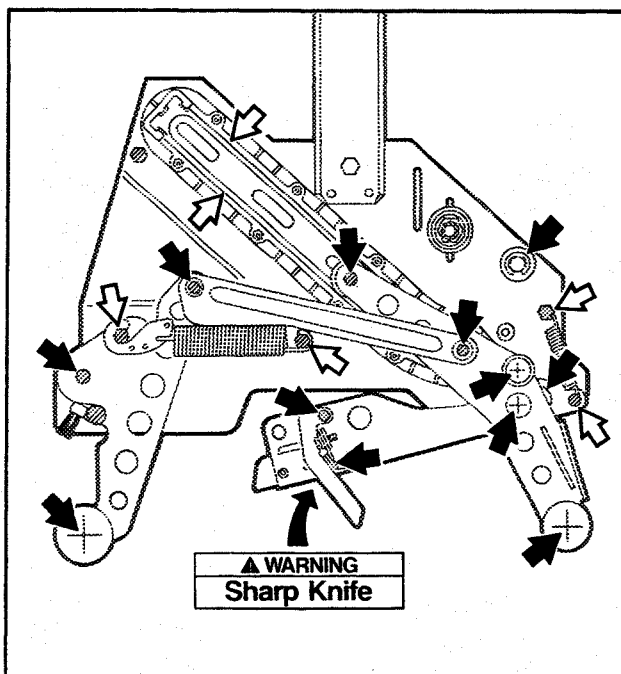


Figure 4-3 - Lubrication Points - Upper and Lower Taping Heads

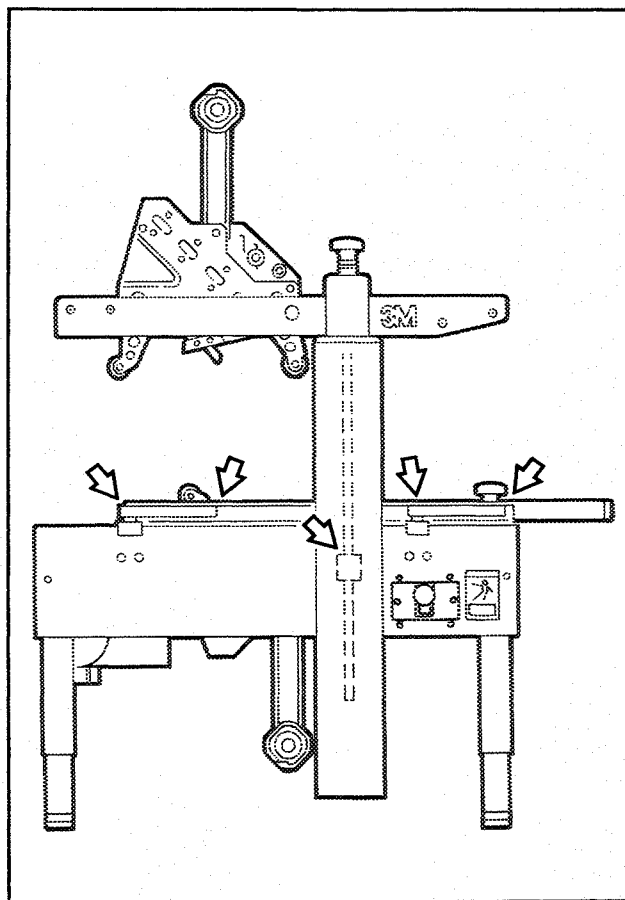


Figure 4-4 - Lubrication Points - Frame

Special Set-Up Procedure



WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING SPECIAL SET-UP PROCEDURE. IF POWER CORD IS NOT DISCONNECTED, SEVERE INJURY TO PERSONNEL COULD RESULT.

Changing the Tape Leg Length

From 2-3/4 to 2 Inches [70 TO 50 mm]

The following changes to the upper and lower taping heads will allow the taping of boxes 3.50 inches [90 mm] minimum height.

Taping Heads



WARNING - USE CARE WHEN WORKING NEAR BLADES AS BLADES ARE EXTREMELY SHARP. IF CARE IS NOT TAKEN, SEVERE INJURY TO PERSONNEL COULD RESULT.

Figure 5-1

1. Loosen, but do not remove, the two retaining screws that secure the upper taping head shown in Figure 5-1A.
2. Slide the head forward and lift straight up to remove it from the case sealer.
3. Lift the lower taping head, shown in Figure 5-1B, straight up to remove it from the case sealer bed.

Figure 5-2

4. Remove and retain the two hex screws to remove the brush from the normal position "A" on the taping head frame.
5. Remount and secure the brush in position "A-A" (Forward of the normal location) using the original fasteners.
6. Remove and retain the two flat head screws to remove the blade cut-off bracket extension in normal position "B".
7. Remount and secure the bracket extension in the forward position "B-B" using the original fasteners. Relocate both the right and left extensions.
8. Remove and retain the hex head screw and washer to remove the one-way tension roller assembly from slot "C" in the head frame.
9. Remount and secure tension roller assembly near top of slot "C-C" in frame using original fasteners.

Note: The one-way tension roller position is adjustable to control the leading tape leg length. Moving this roller farther away from the box top (upper taping head) or bottom (lower taping head) surface, will decrease the leading leg length. Moving it closer to the box top or bottom surface will increase the leading leg length.

Figure 5-3

Illustrates a taped box after case sealer has been converted to 2 inch [50 mm] tape leg length.

Special Set-Up Procedure (Continued)

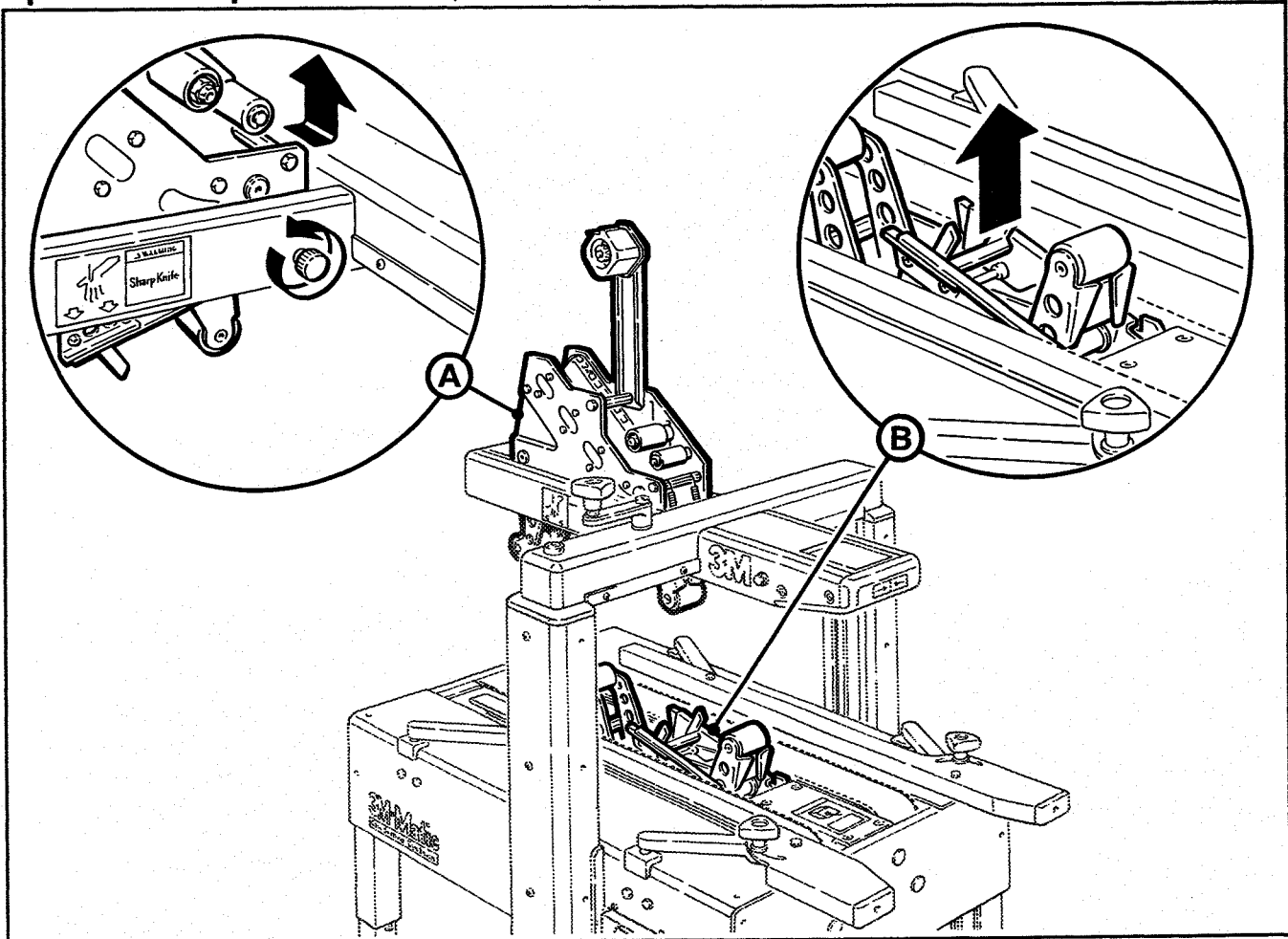


Figure 5-1 - Changes to Case Sealer

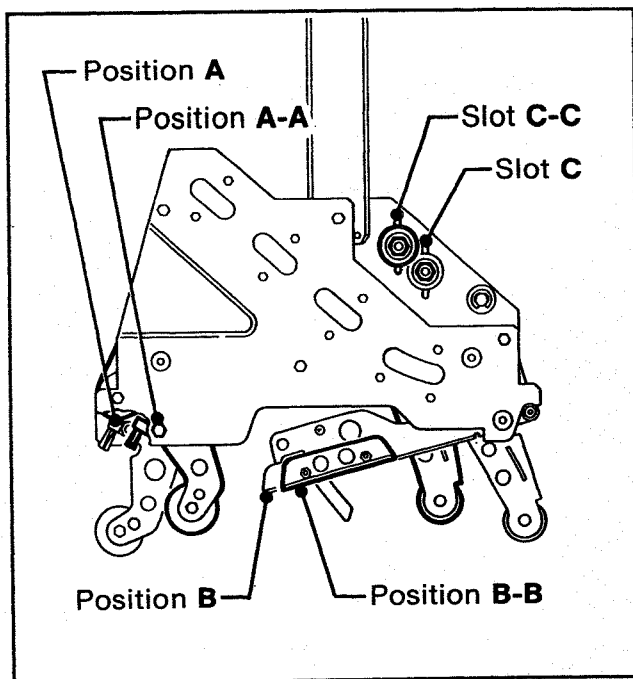


Figure 5-2 - Changes to Taping Head, Upper/Lower

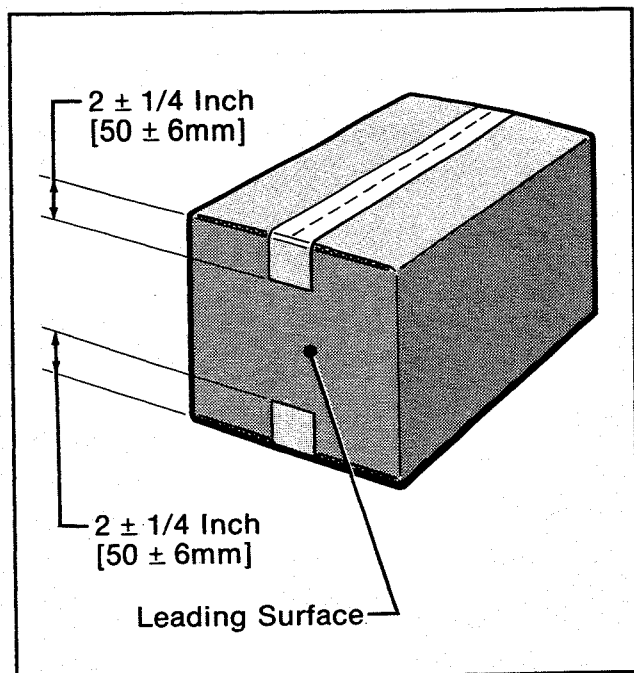


Figure 5-3 - 2-Inch [50 mm] Tape Leg Applied to Box

Troubleshooting

Review Set-Up Procedure Section so that the operational components of the machine are understood. The Troubleshooting Guide lists some possible machine problems, causes and corrections.

Troubleshooting Guide

Problem	Cause	Correction
Drive belts do not convey boxes	Narrow boxes	Check machine specifications. Boxes are narrower than recommended, causing slippage and premature belt wear.
	Worn drive belts	Replace drive belts
	Top taping head does not apply enough pressure	Adjust the box height adjustment with the crank
	Top flap compression rollers in too tight	Readjust compression rollers
	Taping head applying spring holder missing	Replace spring holder
	Taping head applying spring set too high	Reduce spring pressure
Drive belts do not turn	Worn or missing friction rings	Replace friction rings
	Drive belt tension too low	Adjust belt tension
	Electrical disconnect	Check power and electrical plug
	Circuit breaker not at correct setting	Set to correct current value
	Motor not turning	Evaluate problem and correct
Upper and lower applying mechanisms interfere with each other	Machine adjusted below minimum	Set taping heads to apply 2 inch leg lengths
Drive belt break	Worn belt	Replace belt
	Excessive belt tension	Tension to 7 lbs. per adjustment section
Light boxes tip back on exit	Upper ski down too far	Carefully adjust upper ski
Squeaking noise as boxes pass through machine	Dry column bearings	Lubricate column bearings
	Defective column bearings	Replace column bearings
Tape not centered on box seam	Tape drum not centered	Reposition tape drum
	Centering guides not centered	Adjust centering guides
	Box flaps not of equal length	Check box specifications

(Continued)

Troubleshooting (Continued)

Troubleshooting Guide

Problem	Cause	Correction
The tape leg on the front of the case is too long	The tape is threaded incorrectly	The tape must go around the wrap roller before going around the one-way tension roller
	The tape tension is too low	Adjust the one-way tension roller
	The knurled roller drags	Check for adhesive build-up between the knurled roller and its shaft. Clean and lubricate shaft. Remove all lubricant from roller surfaces.
	Tape tracks to one side or drags on the support tabs of applying frame	Adjust the tape web alignment
	The one-way tension roller is not correctly positioned	Position the roller in its mounting slot so that the tape extends just beyond the center line of the applying roller
	Taping head is not set up properly	Check leg length adjustments
The blade does not cut tape or the tape end is jagged or shredded	The blade is dull and/or has broken teeth	Replace the blade
	Tape tension is insufficient	Increase tape tension by adjusting the one-way roller
	Adhesive has build up on the blade	Clean and adjust the blade
	The blade is not positioned properly	Make sure the blade is bottomed out against the mounting bolts
	The blade is dry	Lubricate the blade oiler pad on the blade guard
	The blade is in backwards	Mount the blade so that the beveled edge is away from the entrance end of the head
	One or both cutter springs are missing or stretched	Replace the defective spring(s)
	Tension roller surface is not fully contacting the taping head frame	Make sure one-way bearing is below the surface of the tension roller. If not, press bearing further into roller or replace roller.


(Continued)

Troubleshooting (Continued)

Troubleshooting Guide

Problem	Cause	Correction
Tape is tabbing on the tailing leg on the back of the box	There is excess tension on the tape drum assembly and/or the one-way tension roller assembly	Adjust the one-way tension roller and/or the tape drum assembly
	Rollers in the tape path do not rotate freely	Clean adhesive deposits from the surface, ends, and shafts of the rollers. Then lubricate roller shafts. Remove all lubricant from roller surfaces.
	The blade is not cutting tape properly	Refer to tape cutting problems
	The tape is threaded incorrectly	Rethread the tape
The tape end does not stay in the application position in front of the applying roller	Applying mechanism spring has too little tension	Move spring hook to next tighter hole
	The tape is incorrectly threaded	Rethread the tape
	Flanged knurled roller overruns on return of applying mechanism to its rest position	Adjust tension roller position in mounting slot to lengthen tape leg
	Applying roller overruns on return of applying mechanism to its rest position	There should be a slight drag when rotating the applying roller. If not, check friction springs and/or friction pins and replace if necessary
	The one-way tension roller is not correctly positioned	Position roller in its mounting slot so that tape end extends beyond center line of applying roller
	The one-way tension roller is defective	Replace the one-way tension roller

Electrical Diagram

**WARNING - TURN OFF ELECTRICAL POWER SUPPLY AND DISCONNECT POWER CORD FROM ELECTRICAL SUPPLY BEFORE BEGINNING SERVICE IF POWER CORD IS NOT DISCONNECTED, PERSONNEL COULD BE EXPOSED TO DANGEROUS VOLTAGES. SEVERE INJURY OR EQUIPMENT DAMAGE COULD RESULT.**

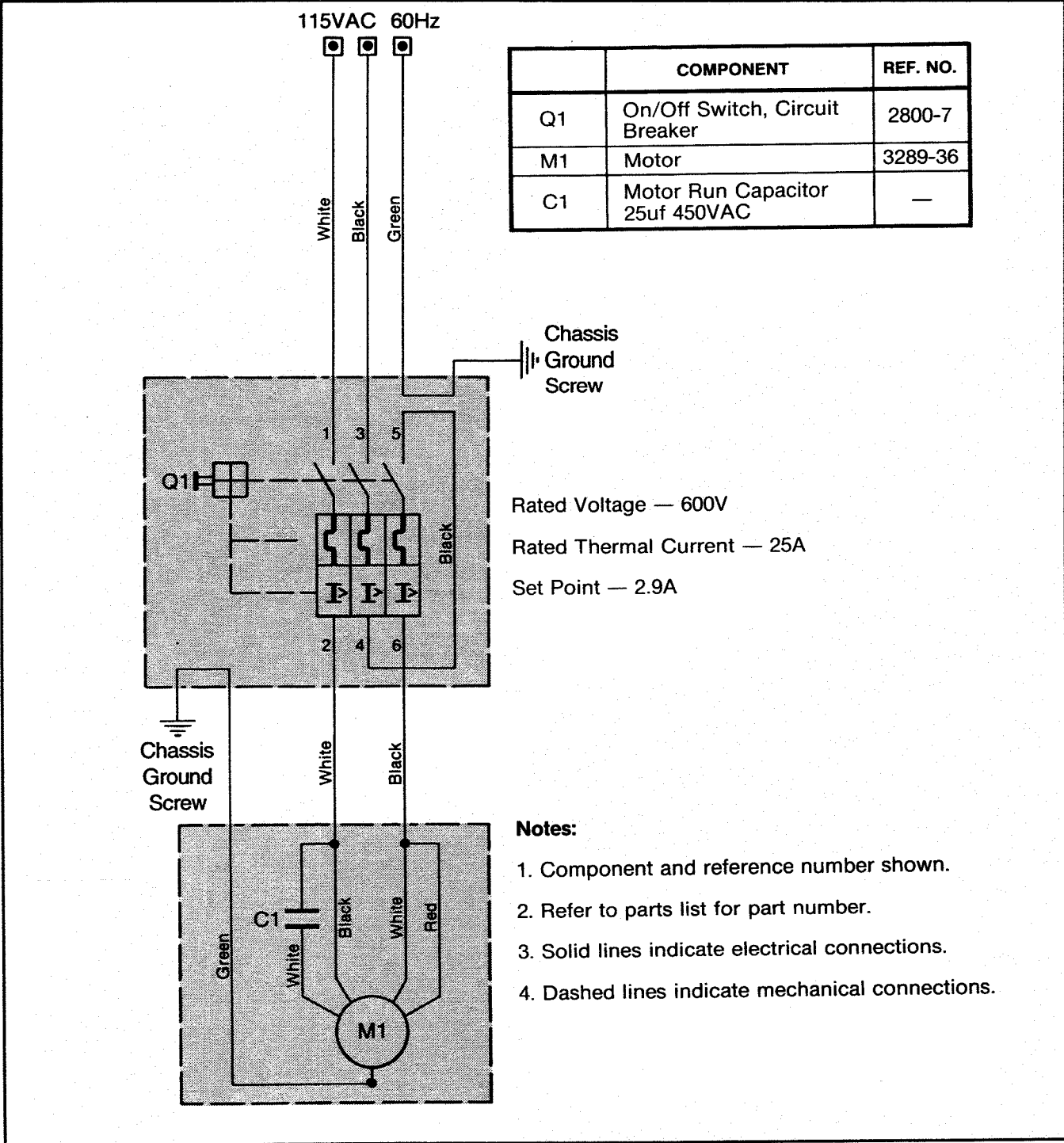


Figure 6 - Electrical Diagram

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Replacement Parts And Service Information

Spare Parts

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

Qty.	Ref. No.	Part Number	Description
1	2880-15	78-8057-6179-4	Roller - Applying
1	2881-5	78-8057-6178-6	Roller - Buffing
1	2881-10	78-8070-1274-1	Spring - Upper Extension
1	2883-2	78-8017-9173-8	Blade - 2.56 Inch/65 mm
2	2883-12	78-8052-6602-6	Spring - Cutter
1	2886-10	78-8070-1273-3	Spring - Lower Extension
2	2812-38	78-8070-1531-4	Belt - Drive W/Hook

The threading tool, part number 78-8017-9433-6, is also available as a replacement stock item. Refer to "How To Order Replacement Parts" for ordering information.

How To Order Replacement Parts

1. Order parts by part number, part name, machine name, type number and part quantity required. A parts order form is provided at the back of the manual.

**Minimum billing on parts orders will be \$10.00.
Replacement part prices available on request.**

2. Replacement parts and part prices available direct from:

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

Note - Outside the U.S. contact the local 3M subsidiary for parts order information.

Repair Service

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

Options/Accessories

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

Part Number	Option/Accessory
78-8052-6553-1	Box Hold Down Attachment, Model 18500 (used in conjunction with conveyor extension attachment below)
78-8060-7405-6	Caster Kit Attachment
78-8069-3924-1	Conveyor Extension Attachment
78-8079-5505-5	Three Flap Folder Kit

Replacement Parts - Illustrations and Parts Lists

100a Adjustable Case Sealer, Type 19200

Frame Assemblies

1. Refer to **Frame Assemblies** figure to find all the parts illustrations identified by **figure numbers**.
2. Refer to the figure or figures to determine the **individual parts** required and the **parts reference number**.
3. The **replacement parts list**, that follows each illustration, includes the **part number** and **part description** for the parts in that illustration.

Note - The complete description has been included for **standard fasteners** and **some commercially available components**. This has been done to allow obtaining these standard parts locally, should the customer elect to do so.

4. Refer to page 33 - "**Replacement Parts and Service Information**" of this manual for replacement parts ordering information.

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This diagram illustrates the assembly of a 3M Matic tape dispensing machine. The machine features a main body with a 3M logo, a vertical support structure, and a horizontal tape carriage. The following components are labeled with callouts:

- Figure 3288**: Points to the vertical support structure on the left side.
- Figure 3287**: Points to the horizontal tape carriage assembly.
- Figure 3289**: Points to the internal mechanism of the tape carriage.
- Figure 2796**: Points to the base of the machine.
- Figure 3286**: Points to the front panel of the machine.
- Figure 3421**: Points to the bottom left leg of the machine.
- Taping Head Assemblies (See pages 53 - 71)**: Points to the top assembly where the tape is dispensed.

37

100a Frame Assembly

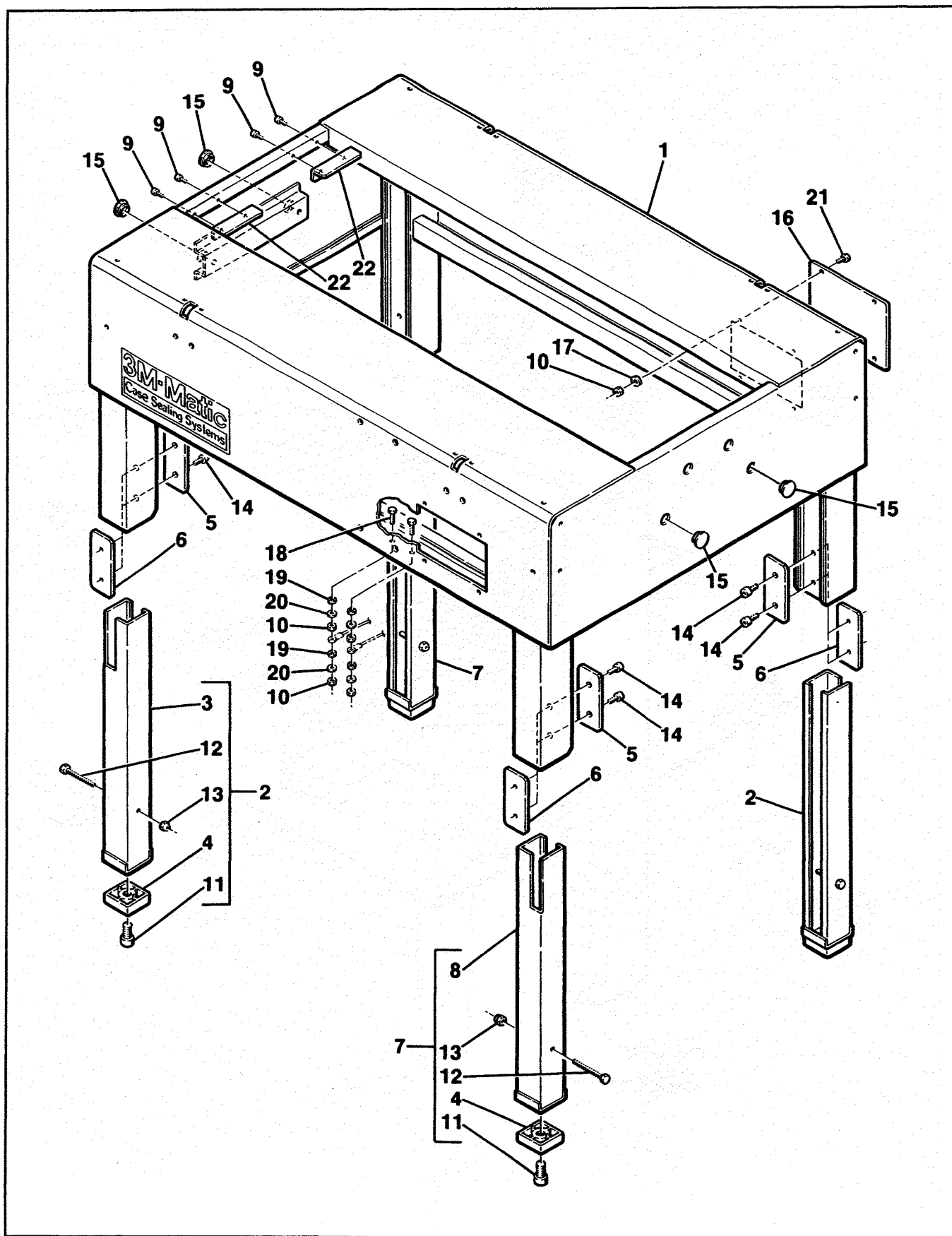


Figure 3286

Figure 3286

Ref. No.	3M Part No.	Description
3286-1	78-8079-5119-5	Bed – Conveyor
3286-2	78-8079-5120-3	Leg Assembly – Inner R/H
3286-3	78-8079-5121-1	Leg – Inner R/H
3286-4	78-8079-5122-9	Pad – Foot
3286-5	78-8079-5124-5	Clamp – Leg
3286-6	78-8079-5125-2	Clamp – Leg
3286-7	78-8079-5126-0	Leg Assembly – Inner L/H
3286-8	78-8079-5127-8	Leg – Inner L/H
3286-9	26-1003-7948-1	Screw – Soc Hd, Hex Soc, M5 x 10
3286-10	78-8010-7417-6	Nut – Hex M5
3286-11	26-1003-7985-3	Screw – Soc Hd, Hex Soc, M12 x 20
3286-12	26-1005-5318-4	Screw – Soc Hd, Hex Soc, M6 x 55
3286-13	26-1003-6916-9	Nut – Plastic Insert, M6
3286-14	26-1003-7963-0	Screw – Soc Hd, Hex Soc, M8 x 16
3286-15	78-8054-8821-6	Cap
3286-16	78-8060-8487-3	Cover – Switch
3286-17	78-8005-5741-1	Washer – Plain, M5
3286-18	78-8060-8488-1	Screw – Hex Hd, M5 x 20
3286-19	78-8046-8217-3	Washer – Special Lock
3286-20	78-8005-5741-1	Washer – Plain, M5
3286-21	78-8060-8087-1	Screw – Pan Hd, M5 x 10
3286-22	78-8060-8482-4	Plate – Protection

100a Frame Assembly

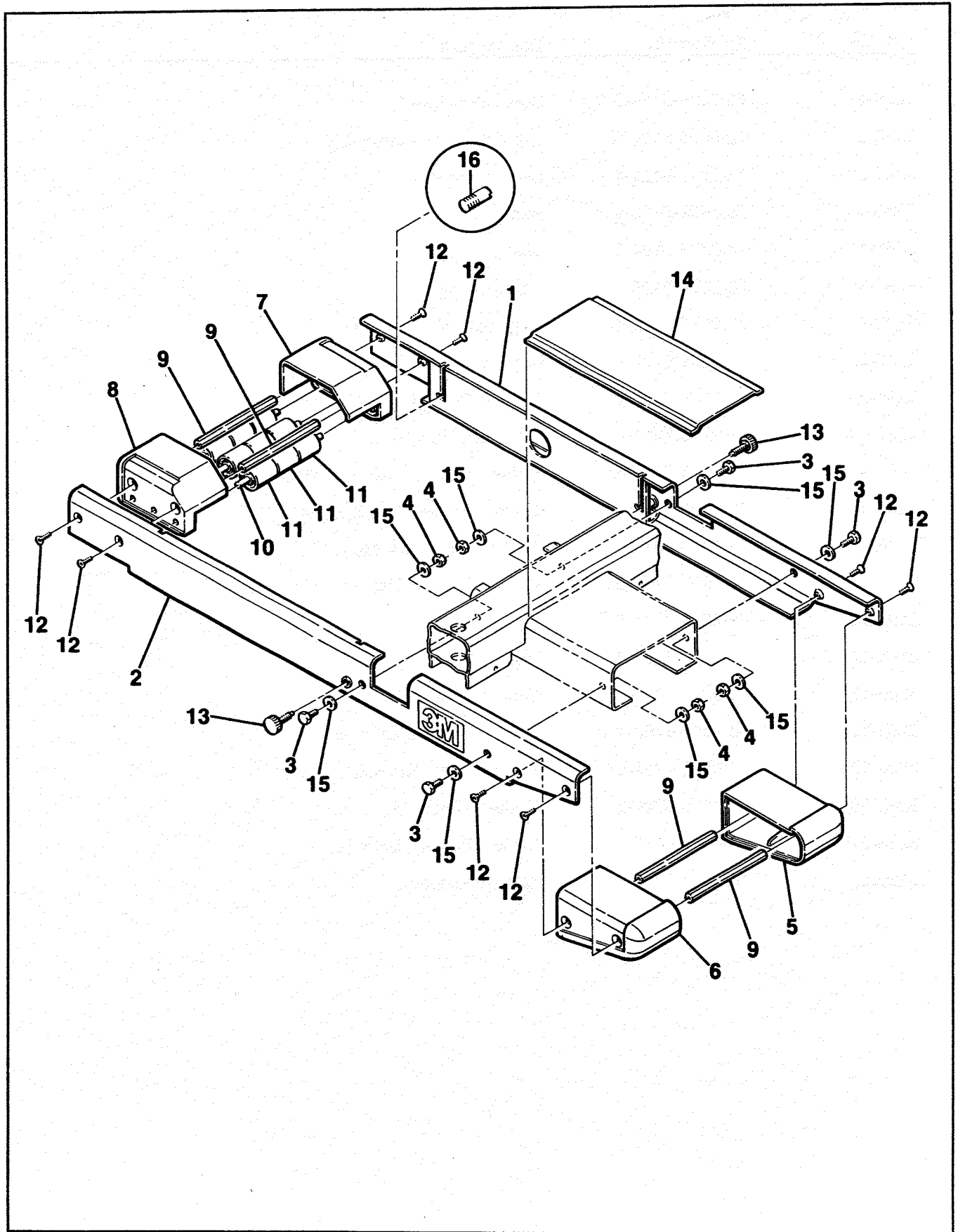


Figure 3287

Figure 3287

Ref. No.	3M Part No.	Description
3287-1	78-8079-5174-0	Side Plate – R/H
3287-2	78-8079-5175-7	Side Plate – L/H
3287-3	26-1003-5842-8	Screw – Hex Hd, M8 x 20
3287-4	26-1000-1347-8	Nut – Hex M8
3287-5	78-8070-1574-4	Slide – Front, Right
3287-6	78-8070-1575-1	Slide – Front, Left
3287-7	78-8070-1576-9	Slide – Rear, Right
3287-8	78-8070-1577-7	Slide – Rear, Left
3287-9	78-8070-1553-8	Spacer
3287-10	78-8070-1554-6	Stud
3287-11	78-8060-7693-7	Roller – 32 x 38
3287-12	26-1005-5316-8	Screw – Flat Hd, Hex Dr, M5 x 16
3287-13	78-8070-1555-3	Block – Upper Head
3287-14	78-8079-5176-5	Cover
3287-15	78-8017-9318-9	Washer – Plain, M8
3287-16	78-8076-4500-3	Stud – Mounting

This technical diagram illustrates the exploded view of a mechanical assembly, likely a door or cabinet mechanism. The components are numbered 1 through 44. The main assembly includes a base (1), a vertical support (2), a horizontal support (41), and a door panel (1). Key components include a handle (30), a latch (38), a spring (13), a roller (11), a pin (12), a screw (14), a nut (16), a washer (17), a bracket (18), a plate (19), a roller (20), a pin (21), a spring (22), a nut (23), a washer (24), a pin (25), a roller (26), a pin (27), a spring (28), a nut (29), a pin (31), a roller (32), a pin (33), a bracket (34), a plate (35), a pin (36), a roller (37), a pin (38), a nut (39), a washer (40), a pin (41), a roller (42), a pin (43), a nut (44), a washer (45), a pin (46), a roller (47), a pin (48), a nut (49), a washer (50), a pin (51), a roller (52), a pin (53), a nut (54), a washer (55), a pin (56), a roller (57), a pin (58), a nut (59), a washer (60), a pin (61), a roller (62), a pin (63), a nut (64), a washer (65), a pin (66), a roller (67), a pin (68), a nut (69), a washer (70), a pin (71), a roller (72), a pin (73), a nut (74), a washer (75), a pin (76), a roller (77), a pin (78), a nut (79), a washer (80), a pin (81), a roller (82), a pin (83), a nut (84), a washer (85), a pin (86), a roller (87), a pin (88), a nut (89), a washer (90), a pin (91), a roller (92), a pin (93), a nut (94), a washer (95), a pin (96), a roller (97), a pin (98), a nut (99), a washer (100).

42

Figure 3288

Ref. No.	3M Part No.	Description
3288-1	78-8079-5132-8	Column Assembly – Outer L/H
3288-2	78-8079-5133-6	Column Assembly – Outer Column R/H
3288-3	78-8079-5134-4	Guide – Outer Column
3288-4	78-8060-8087-1	Screw – M5 x 10, Metric
3288-5	78-8023-2301-0	Screw – Hex Soc Hd M8 x 10
3288-6	78-8005-5736-1	Lockwasher – For M8 Screw
3288-7	78-8079-5135-1	Cap – Column
3288-8	26-1002-4955-1	Screw – 8P x 13 Self-Tap
3288-11	78-8076-5481-5	Roller – Column
3288-12	78-8054-8968-5	Nut – Special
3288-13	78-8079-5139-3	Lead Screw
3288-14	78-8054-8969-3	Spring
3288-15	78-8054-8970-1	Bed Plate For Spring
3288-16	78-8054-8571-7	Nut – Plastic
3288-17	78-8076-5482-3	Plate – Nut Stop
3288-18	78-8005-5740-3	Washer – Plain 4 mm
3288-19	78-8079-5140-1	Sprocket – Screw, 3/8
3288-20	78-8079-5141-9	Shaft – Crank
3288-21	78-8079-5142-7	Spring Pin – 4 x 26 Collar
3288-22	78-8079-5168-2	Collar
3288-23	78-8076-4807-2	Crank Assembly
3288-24	78-8076-5422-9	Crank
3288-25	78-8070-1512-4	Knob – VTR-B-M12
3288-26	78-8010-7157-8	Screw – Hex Hd, M4 x 10
3288-27	78-8005-5740-3	Washer – Plain 4 mm
3288-28	78-8070-1511-6	Bushing
3288-29	78-8070-1510-8	Washer – Nylon 7 x 15 x 1
3288-30	26-1005-5316-8	Screw – Flat Hd, Hex Dr, M5 x 16
3288-31	78-8070-1509-0	Shaft – Crank
3288-32	78-8070-1538-9	Bushing
3288-33	78-8091-0354-8	Screw – Set, M5 x 6
3288-34	78-8060-8020-2	Chain – 3/8 Inch Pitch, L=50
3288-35	78-8079-5144-3	Cover – Chain
3288-36	26-1002-5753-9	Screw – Self-Tapping
3288-37	78-8076-4809-8	Washer – Crank
3288-38	78-8032-0375-7	Screw – Hex Hd M6 x 16
3288-41	78-8091-0325-8	Column Assembly – Inner
3288-42	78-8091-0324-1	Screw – Special
3288-43	26-1000-0010-3	Washer – Flat M6
3288-44	26-1003-6916-9	Nut – Locking Plastic Insert M6

100a Frame Assembly

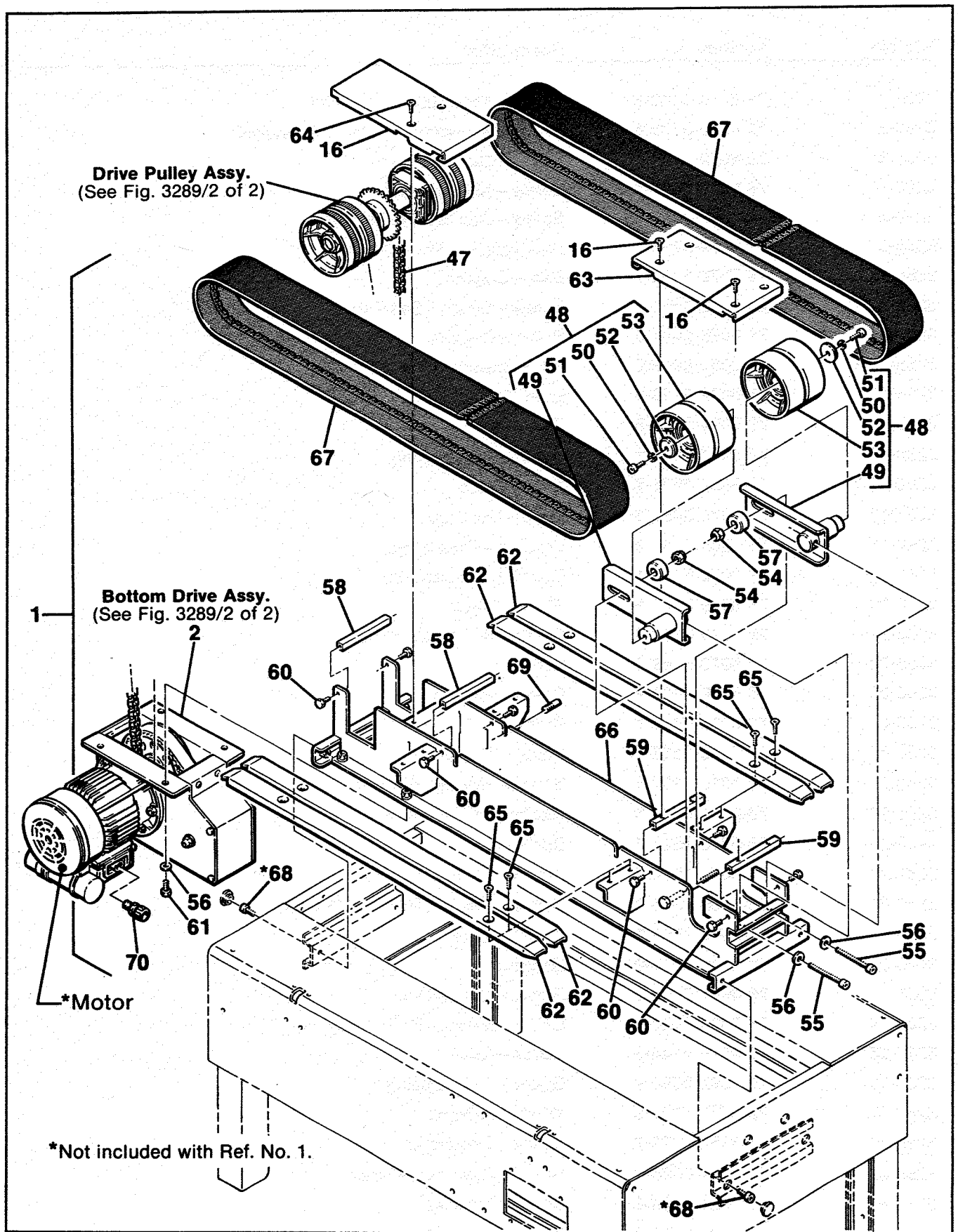


Figure 3289/1 of 2

Figure 3289 (Page 1 of 2)

Ref. No.	3M Part No.	Description
3289-1	78-8079-5146-8	Bottom Drive Assembly, w/o Motor
3289-2	78-8079-5147-6	Bottom Drive, w/o Motor
3289-3	78-8079-5148-4	Frame – R/H
3289-4	78-8079-5149-2	Frame – L/H
3289-5	78-8079-5150-0	Frame – Front
3289-6	78-8079-5151-8	Frame – Rear
3289-7	78-8017-9301-5	Screw – Hex Hd, M8 x 25
3289-8	26-1004-5507-5	Washer – M8
3289-9	78-8076-5479-9	Plate – Motor Mounting
3289-11	78-8054-8980-0	Pulley Timing Belt
3289-12	78-8054-8979-2	Housing – Bearing
3289-13	78-8028-8244-5	Key – 4 x 4 x 10 mm
3289-14	78-8079-5154-2	Sprocket
3289-15	78-8054-8877-8	Washer – 5,5/20 x 4
3289-16	26-0001-5862-1	Screw – Flat Hd Soc, M5 x 12
3289-17	78-8054-8577-4	Washer – Special
3289-18	26-1001-9843-6	Screw – Flat, Soc Hd , M6 x 16
3289-19	78-8010-7193-3	Screw – Hex Hd, M6 x 20
3289-20	78-8042-2919-9	Washer – Triple M6
3289-21	78-8060-8147-3	Reducer Pulley Assembly
3289-22	78-8054-8978-4	Reducer – Pulley
3289-23	78-8054-8988-3	Shaft – Timing Pulley
3289-24	78-8016-5855-6	E-Ring – 10 mm
3289-25	78-8017-9318-9	Washer – Plain 8 mm
3289-26	78-8017-9313-0	Nut – Self-Lock, M8
3289-27	78-8057-5724-8	Timing Belt – 187L050
3289-28	26-1003-8816-9	Screw – Set, M5 x 6
3289-29	78-8054-8982-6	Pulley – Timing 11 Teeth
3289-30	26-1003-5820-4	Screw – Hex Hd, M5 x 12
3289-31	78-8005-5741-1	Washer – Plain, M5
3289-32	78-8060-8087-1	Screw – Pan Hd, M5 x 10
3289-33	78-8054-8977-6	Spacer
3289-34	78-8054-8975-0	Spacer
3289-35	78-8079-5155-9	Belt – Timing 210L100
3289-36	78-8060-8159-8	Motor – 115V, 60Hz, S-Phase
3289-37	78-8070-1528-0	Shaft – Gearbox

100a Frame Assembly

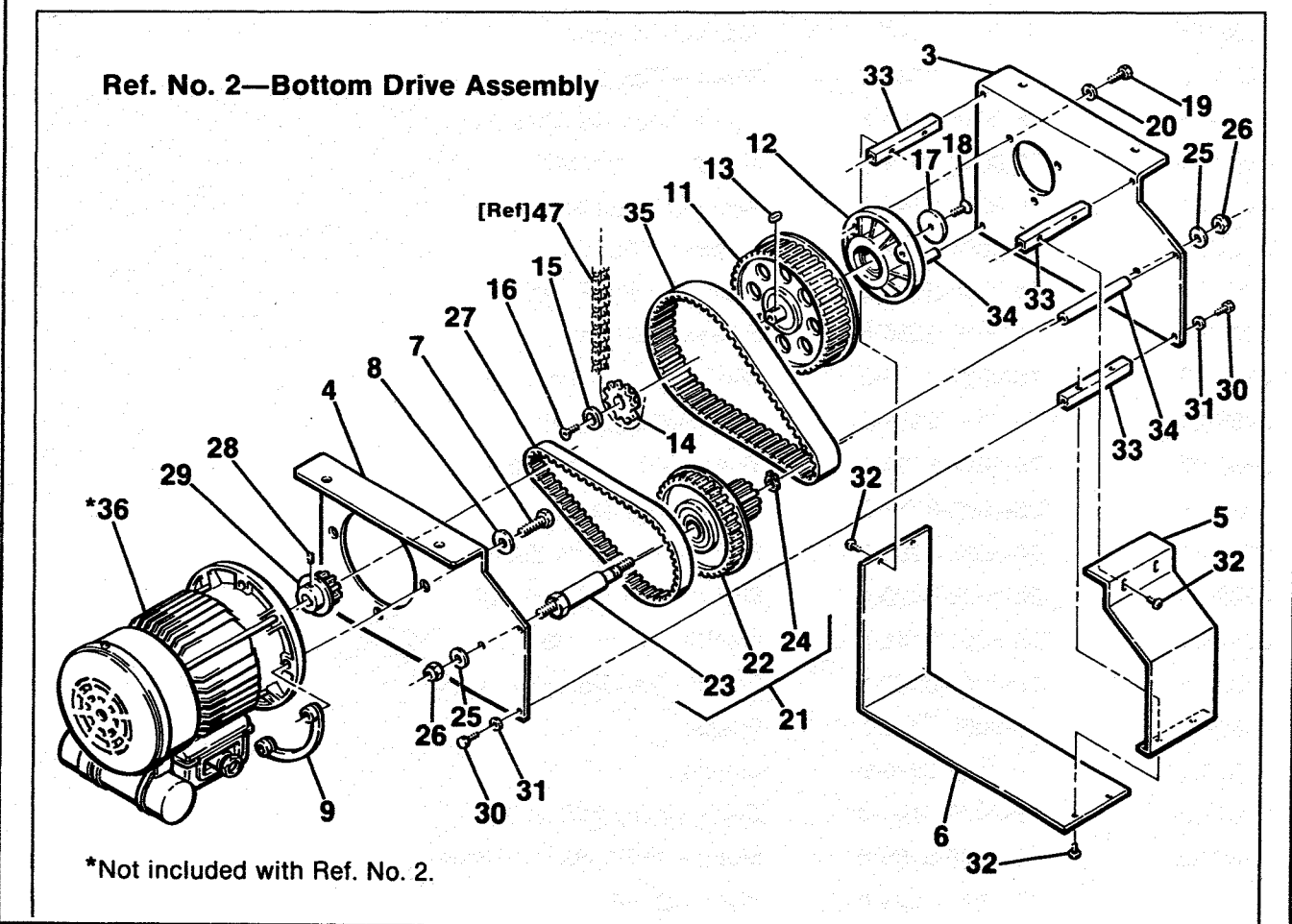
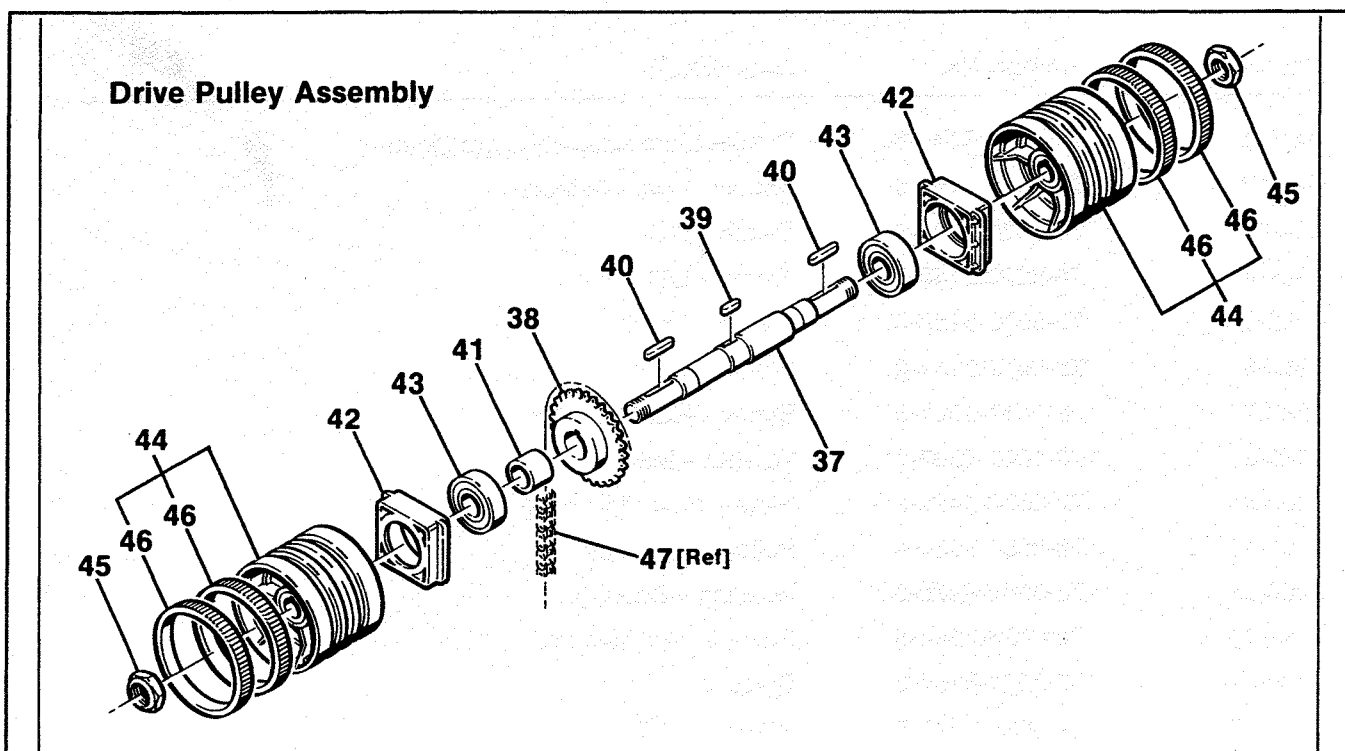


Figure 3289/2 of 2

Figure 3289 (Page 2 of 2)

Ref. No.	3M Part No.	Description
3289-38	78-8054-8986-7	Sprocket – 3/8 Inch Pitch, 28 Teeth
3289-39	78-8057-5811-3	Key – 6 x 6 x 20 mm
3289-40	78-8057-5739-6	Key – 5 x 5 x 30 mm
3289-41	78-8054-8984-2	Bushing
3289-42	78-8070-1529-8	Support – Shaft
3289-43	78-8070-1530-6	Bearing – 6205 - 2 RS
3289-44	78-8076-5105-0	Pulley Assembly – Drive
3289-45	78-8060-8416-2	Nut – Special, M20 x 1
3289-46	78-8052-6713-1	Ring – Polyurethane
3289-47	78-8018-7709-9	Chain – 3/8 Inch Pitch
3289-48	78-8070-1516-5	Belt Tensioning Assembly
3289-49	78-8070-1517-3	Belt Tensioning
3289-50	78-8010-7435-8	Washer – Lock M6
3289-51	26-1003-7957-2	Screw – Soc Hd Hex Hd, M6 x 16
3289-52	78-8052-6709-9	Washer – Special
3289-53	78-8052-6710-7	Roller – Idler
3289-54	26-1003-6918-5	Nut – Hex M10 Plastic Insert
3289-55	78-8070-1519-9	Screw – Soc Hd Hex Hd, M8 x 70
3289-56	78-8017-9318-9	Washer – Plain M8
3289-57	78-8070-1518-1	Spacer – Shaft
3289-58	78-8070-1515-7	Spacer
3289-59	78-8070-1514-0	Spacer – W/Holes
3289-60	26-1003-5829-5	Screw – Hex Hd, M6 x 12
3289-61	26-1003-5841-0	Screw – M8 x 16
3289-62	78-8070-1520-7	Guide – Drive Belt
3289-63	78-8079-5177-3	Plate – Front
3289-64	78-8079-5128-6	Plate – Rear
3289-65	26-1005-4758-2	Screw – Flat Hd, M5 x 20
3289-66	78-8079-5178-1	Frame – Drive
3289-67	78-8070-1531-4	Belt – Drive W/Hook
3289-68	26-1003-7964-8	Screw – Soc Hd, Hex Soc Dr, M8 x 20
3289-69	78-8076-4500-3	Stud – Mounting
3289-70	78-8076-4644-9	Union

100a Frame Assembly

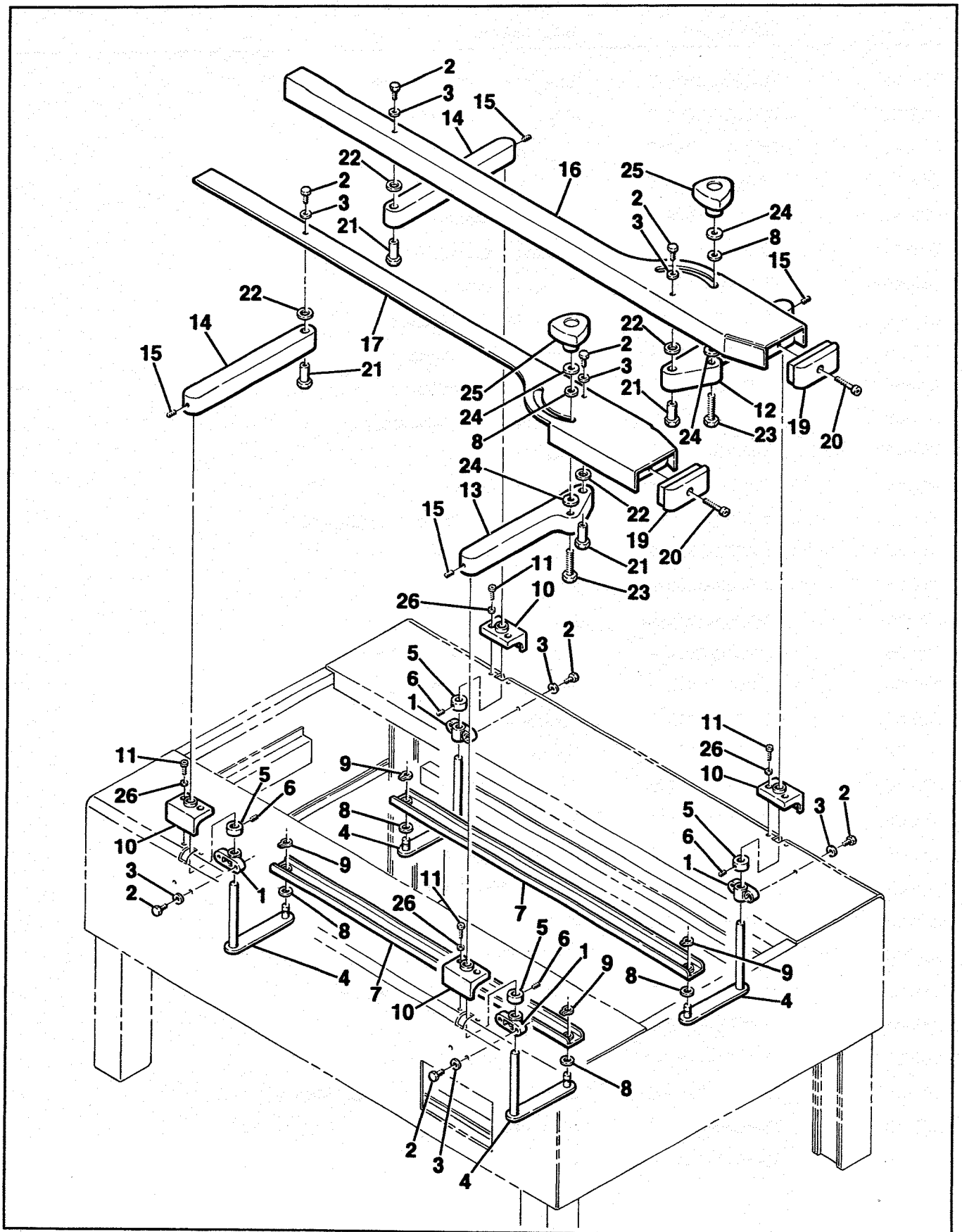


Figure 2796

Figure 2796

Ref. No.	3M Part No.	Description
2796-1	78-8070-1536-3	Support – Guide Arm
2796-2	78-8010-7169-3	Screw – Hex Hd M6 x 12
2796-3	26-1000-0010-3	Washer — Flat M6
2796-4	78-8070-1537-1	Lever With Pivot
2796-5	78-8070-1538-9	Bushing
2796-6	26-1003-8816-9	Screw – Set M5 x 6
2796-7	78-8070-1539-7	Link – Guide
2796-8	78-8017-9074-8	Washer – Nylon 15 mm
2796-9	78-8052-6733-9	Ring – Special M10
2796-10	78-8070-1540-5	Support – Lever
2796-11	78-8032-0382-3	Screw – Soc Hex Hd M5 x 16
2796-12	78-8070-1541-3	Guide Arm – Front, Right
2796-13	78-8070-1542-1	Guide Arm – Front, Left
2796-14	78-8070-1543-9	Guide Arm – Rear
2796-15	78-8076-4505-2	Set Screw – M6 x 8
2796-16	78-8070-1544-7	Guide – Right
2796-17	78-8070-1545-4	Guide – Left
2796-19	78-8070-1546-2	Cap – Guide
2796-20	26-1003-7953-1	Screw – Soc Hd M5 x 30
2796-21	78-8070-1547-0	Shaft – Guide
2796-22	78-8070-1548-8	Washer – Nylon 20 x 12, 5 x 1
2796-23	26-1003-5852-7	Screw – Hex Hd M10 x 40
2796-24	78-8052-6566-3	Washer – Friction
2796-25	78-8070-1549-6	Knob – VTR-B-M10
2796-26	78-8005-5735-3	Washer – Lock, M5

100a Frame Assembly

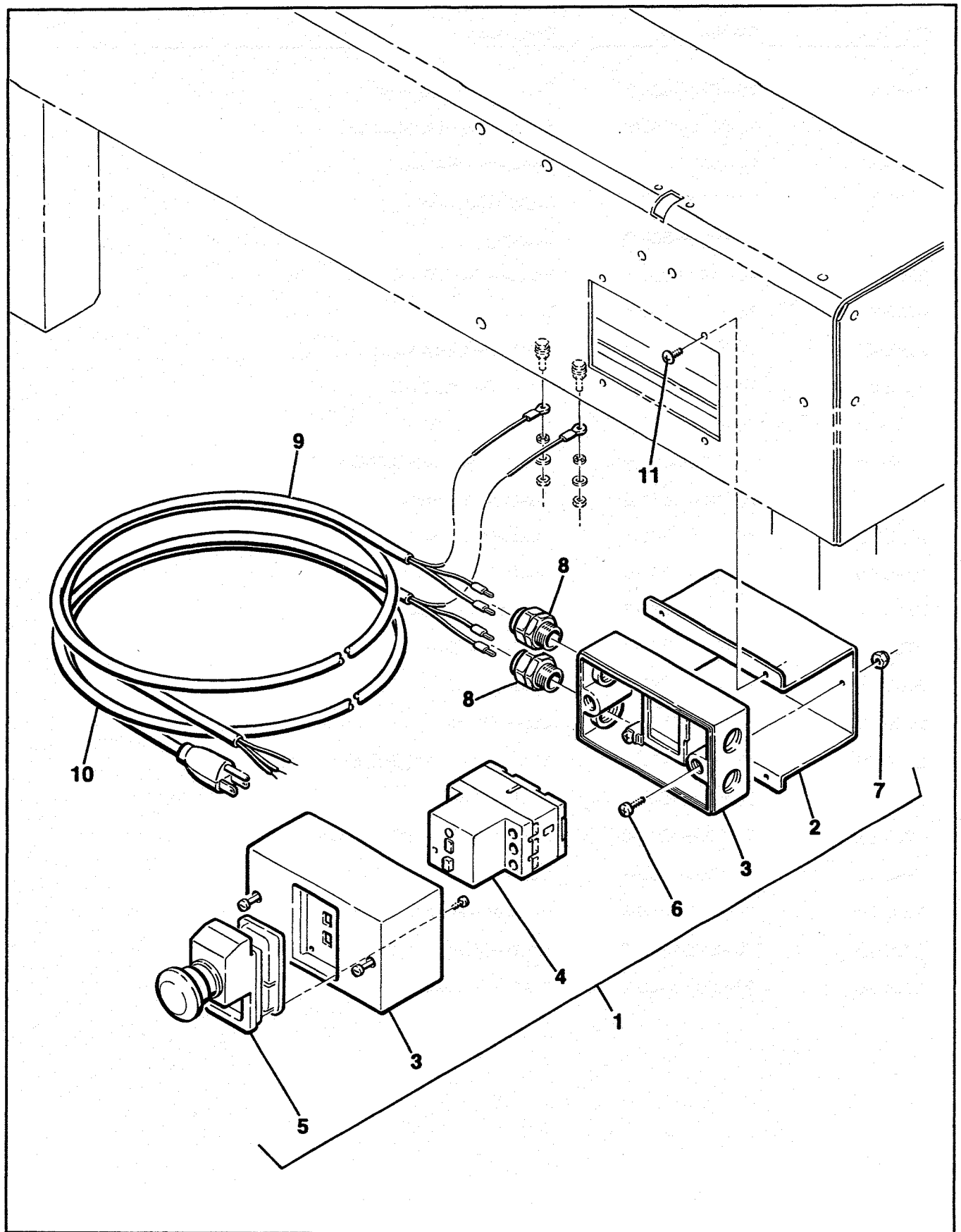


Figure 3421

Figure 3421

Ref. No.	3M Part No.	Description
3421-1	78-8076-5499-7	Switch – On/Off With Support
3421-2	78-8070-1572-8	Switch – Support
3421-3	78-8076-4879-1	Box – On/Off Switch
3421-4	78-8076-4877-5	Switch – On/Off 2,5 – 4 A
3421-5	78-8076-5455-9	E-Stop Button
3421-6	26-1003-5707-3	Screw – Phillips Dr, M4 x 16
3421-7	26-1003-6914-4	Nut – Plastic Insert M4
3421-8	78-8057-5807-1	Cord – Grip
3421-9	78-8060-8053-3	Wire – 3-Pole, 5 Meters Length
3421-10	78-8028-7909-4	Power Cord U.S.A.
3421-11	78-8060-8087-1	Screw – M5 x 10

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Replacement Parts - Illustrations and Parts Lists

100a Adjustable Case Sealer, Type 19200

Taping Head Assemblies

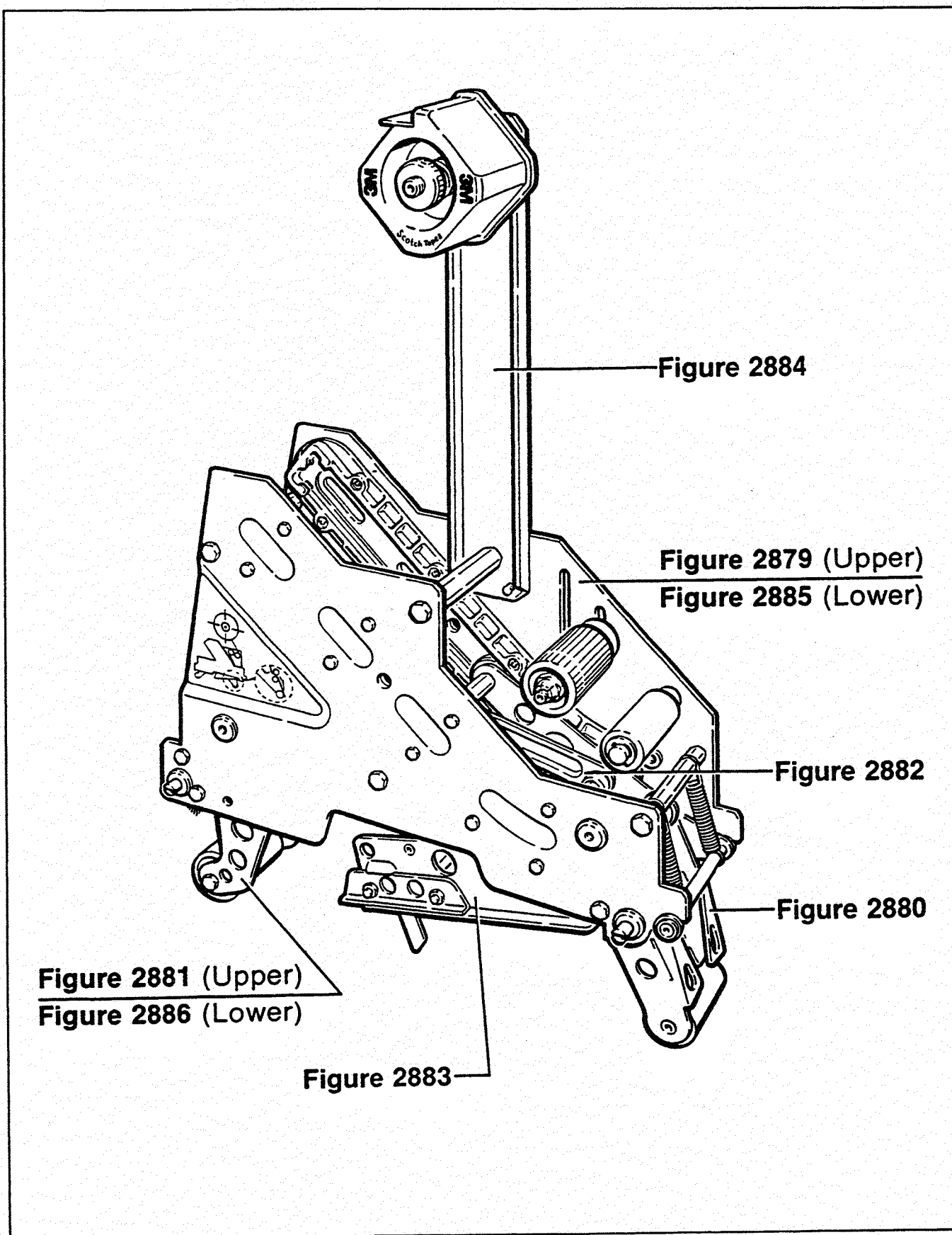
1. Refer to **Taping Head Assemblies** figure to find all the parts illustrations identified by **figure numbers**.
2. Refer to the figure or figures to determine the **individual parts** required and the **parts reference number**.
3. The **replacement parts list**, that follows each illustration, includes the **part number** and **part description** for the parts in that illustration.

Note - The complete description has been included for **standard fasteners** and **some commercially available components**. This has been done to allow obtaining these standard parts locally, should the customer elect to do so.

4. Refer to page 33 - "**Replacement Parts and Service Information**" of this manual for replacement parts ordering information.

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100a (2 Inch Width Taping Head)



Taping Head Assemblies

100a (2 Inch Width Taping Head)

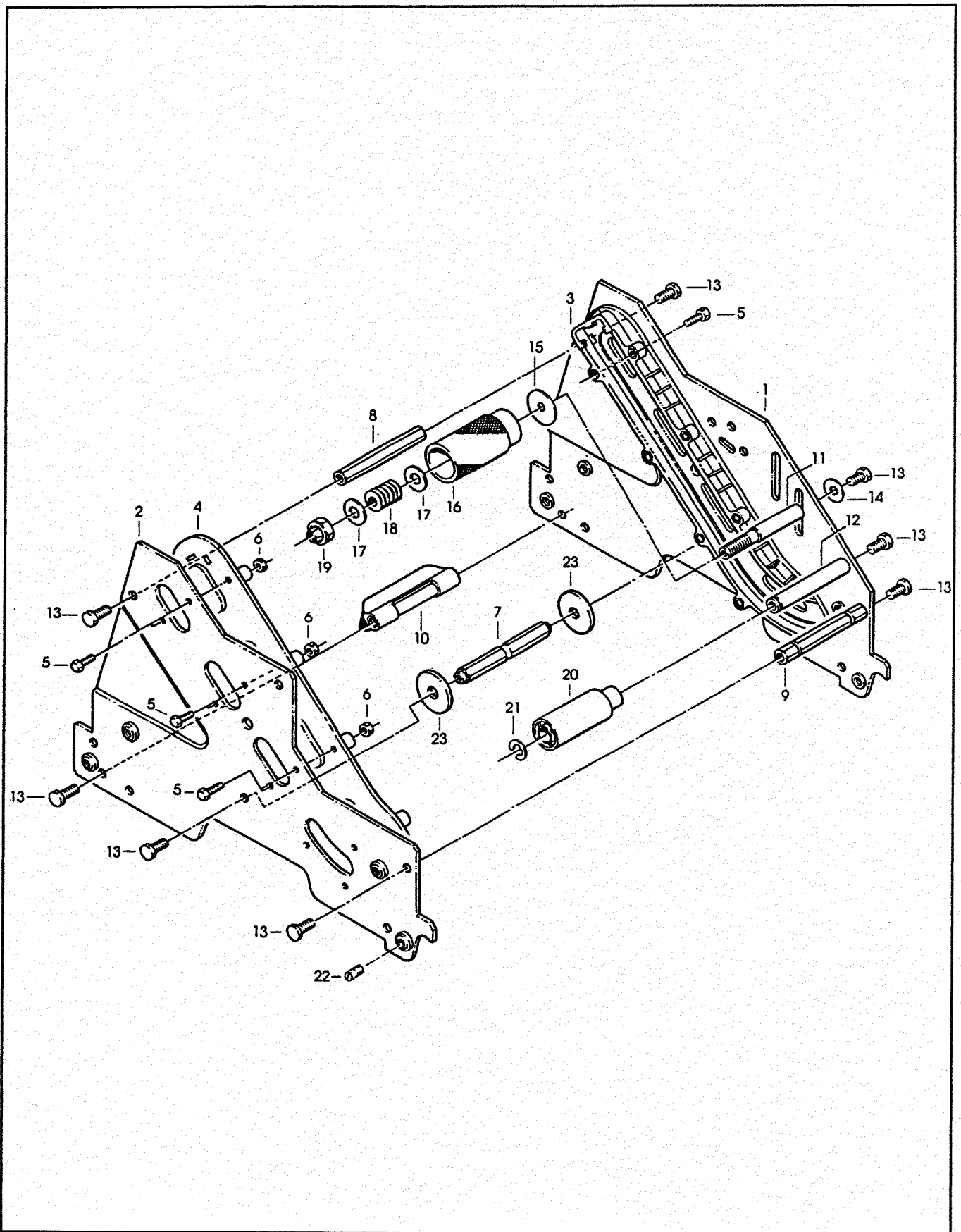


Figure 2879 Upper

Figure 2879 Upper

Ref. No.	3M Part No.	Description
2879-1	78-8070-1386-3	Frame - Tape Mount Upper Assembly
2879-2	78-8070-1387-1	Frame - Front Upper Assembly
2879-3	78-8068-4143-9	Guide - R/H
2879-4	78-8060-8414-7	Guide - L/H
2879-5	83-0002-7336-3	Screw - Hex Hd M4 X 14
2879-6	78-8010-7416-8	Nut - Hex M4
2879-7	78-8070-1251-9	Spacer - Spring
2879-8	78-8052-6559-8	Spacer - Upper
2879-9	78-8052-6560-6	Spacer - Front
2879-10	78-8060-7936-0	Brush Assembly
2879-11	78-8052-6564-8	Shaft - Tension Roller
2879-12	78-8052-6568-9	Shaft - Wrap Roller
2879-13	26-1003-5828-7	Screw - Hex Hd M6 x 12
2879-14	78-8042-2919-9	Washer - Triple M6
2879-15	78-8070-1268-3	Washer - Roll Back Up
2879-16	78-8052-6565-5	Roller - Top Tension
2879-17	78-8052-6566-3	Washer - Friction
2879-18	78-8052-6567-1	Spring - Compression
2879-19	78-8017-9077-1	Nut - Self Locking M10 x 1
2879-20	78-8052-6569-7	Roller - Wrap
2879-21	26-1000-1613-3	Ring - Retaining, No. 10DIN6799
2879-22	78-8076-4500-3	Stud - Mounting
2879-23	78-8076-5242-1	Stop - Cut-Off Frame

100a (2 Inch Width Taping Head)

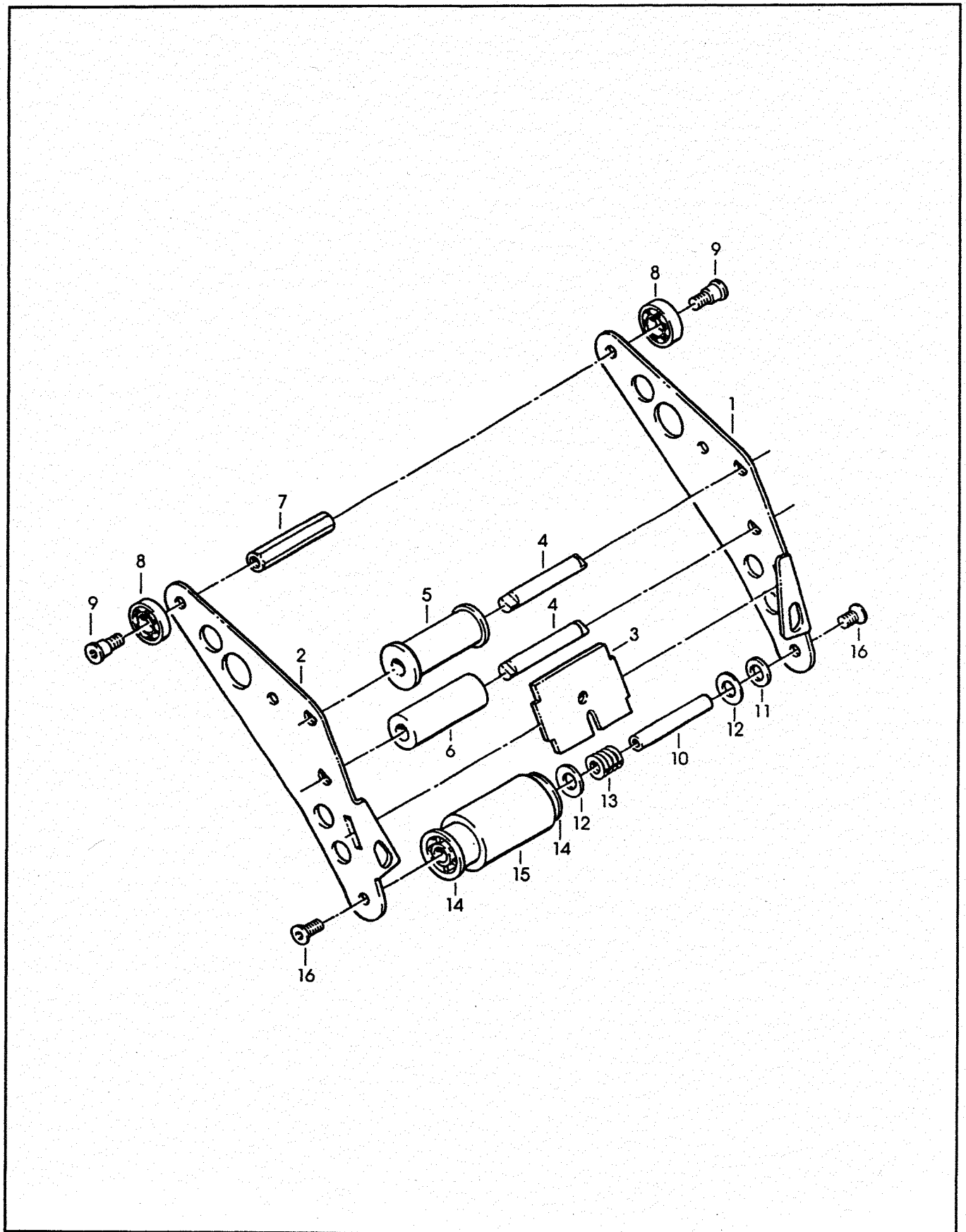


Figure 2880

Figure 2880

Ref. No.	3M Part No.	Description
2880-1	78-8070-1206-3	Applying Arm #1
2880-2	78-8070-1207-1	Applying Arm #2
2880-3	78-8070-1221-2	Plate - Tape
2880-4	78-8070-1309-5	Shaft - Roller
2880-5	78-8070-1367-3	Roller - Knurled Assembly
2880-6	78-8070-1266-7	Roller - Wrap
2880-7	78-8052-6580-4	Spacer
2880-8	78-8017-9082-1	Bearing - Special 30 mm
2880-9	78-8017-9106-8	Screw - Bearing Shoulder
2880-10	78-8052-6575-4	Shaft - Roller
2880-11	78-8017-9074-8	Washer - Nylon 15 mm
2880-12	78-8052-6566-3	Washer - Friction
2880-13	78-8052-6567-1	Spring - Compression
2880-14	78-8060-8395-8	Bushing - Applying Roller
2880-15	78-8057-6179-4	Roller - Applying NM
2880-16	26-1005-4759-0	Screw - Flat Hd M6 x 12

100a (2 Inch Width Taping Head)

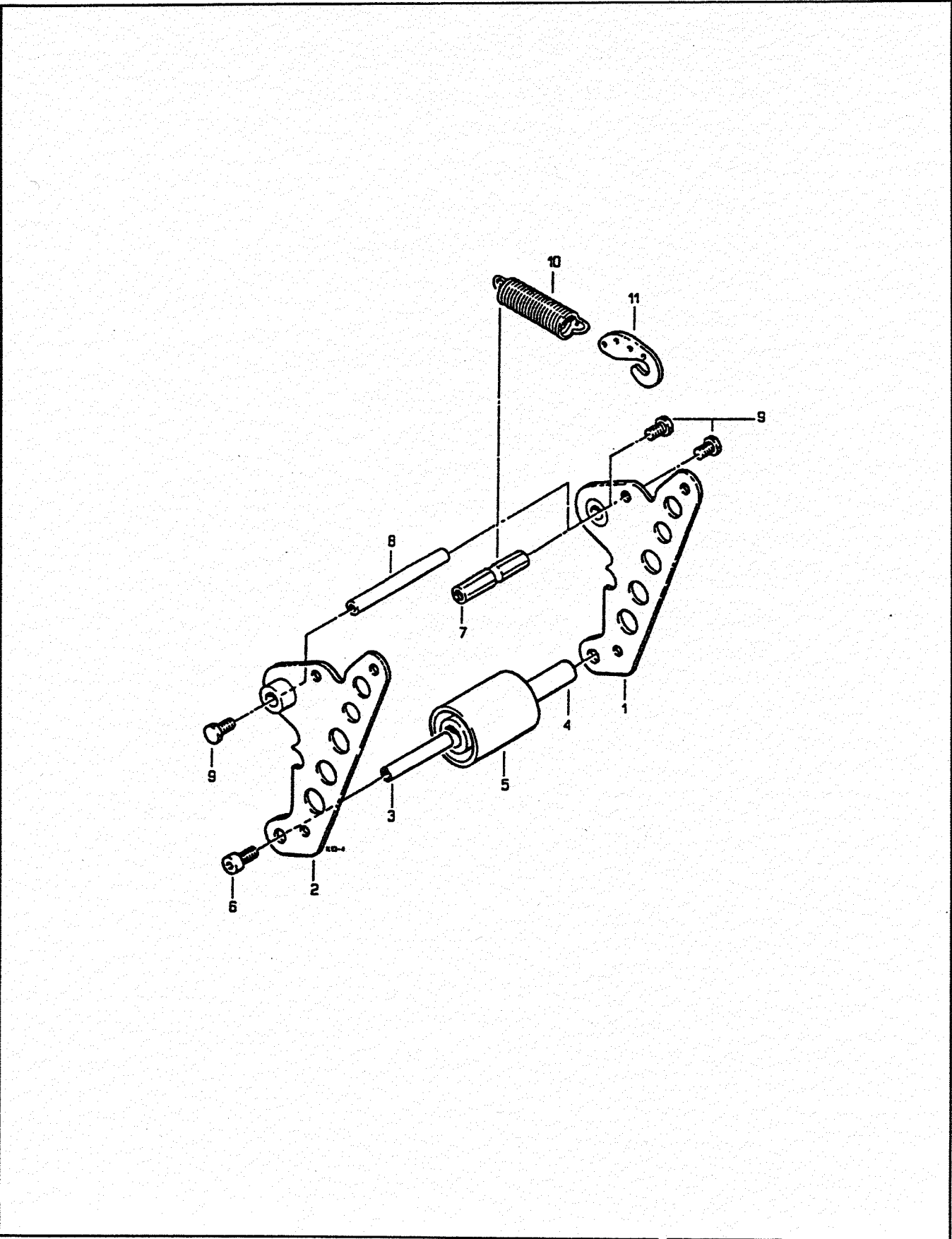


Figure 2881 Upper

Figure 2881 Upper

Ref. No.	3M Part No.	Description
2881-1	78-8070-1392-1	Buffing Arm - Sub Assembly
2881-2	78-8070-1391-3	Buffing Arm - Sub Assembly
2881-3	78-8052-6575-4	Shaft - Roller
2881-4	78-8052-6586-1	Bushing - Buffing Roller
2881-5	78-8057-6178-6	Roller - Buffing NM
2881-6	78-8076-4503-7	Screw - M6 x 12
2881-7	78-8070-1220-4	Spacer - Spring
2881-8	78-8017-9109-2	Shaft - 110 x 90 mm
2881-9	26-1003-5828-7	Screw - Hex Hd M6 x 12
2881-10	78-8070-1274-1	Spring - Upper (Silver)
2881-11	78-8070-1244-4	Holder - Spring

100a (2 Inch Width Taping Head)

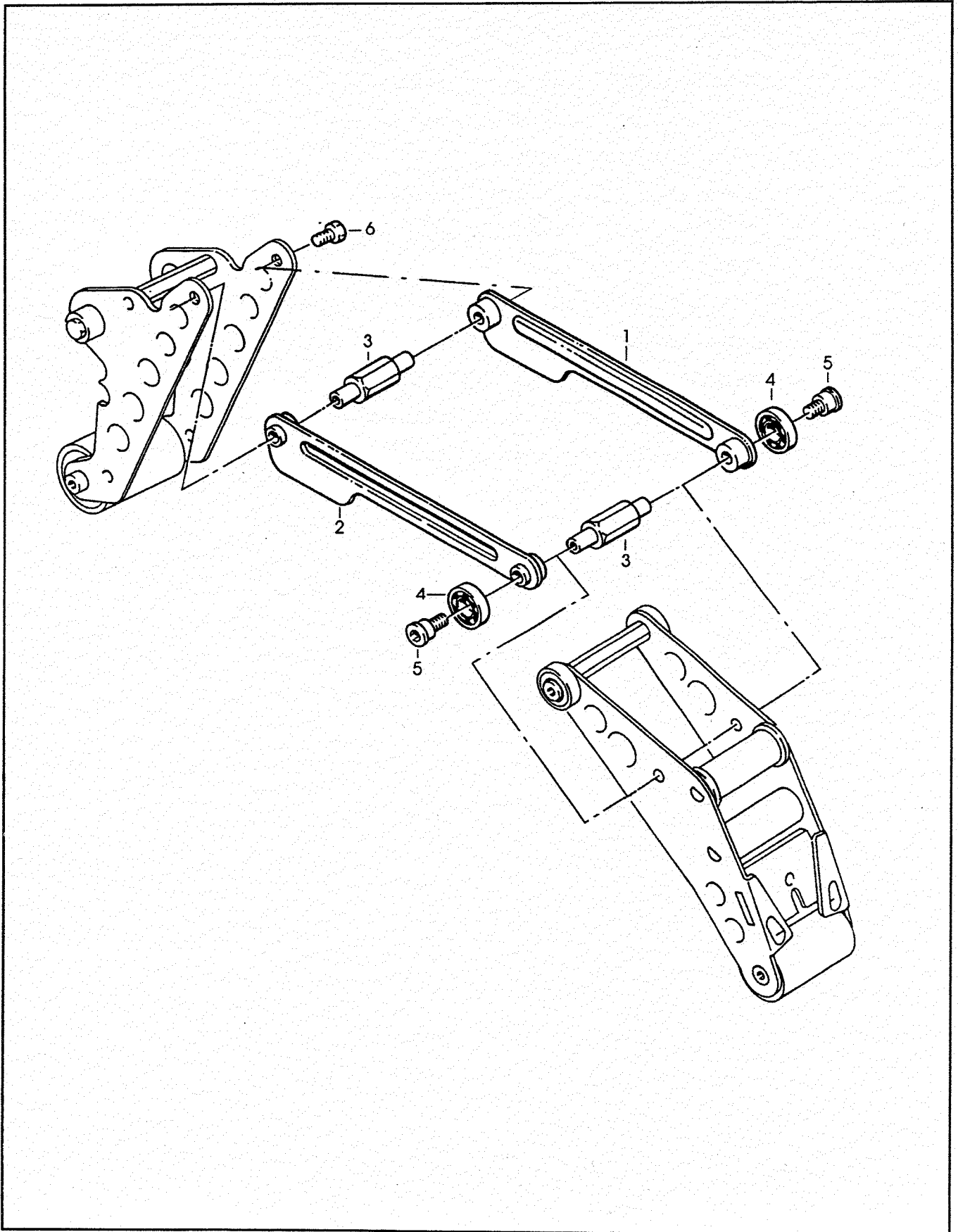


Figure 2882

Figure 2882

Ref. No.	3M Part No.	Description
2882-1	78-8070-1388-9	Link - Arm Bushing Assembly
2882-2	78-8070-1389-7	Link - Arm Bushing Assembly
2882-3	78-8070-1271-7	Shaft - Pivot
2882-4	78-8017-9082-1	Bearing - Special 30 mm
2882-5	78-8017-9106-8	Screw - Bearing Shoulder
2882-6	78-8010-7163-6	Screw - Hex Hd M5 x 10

100a (2 Inch Width Taping Head)

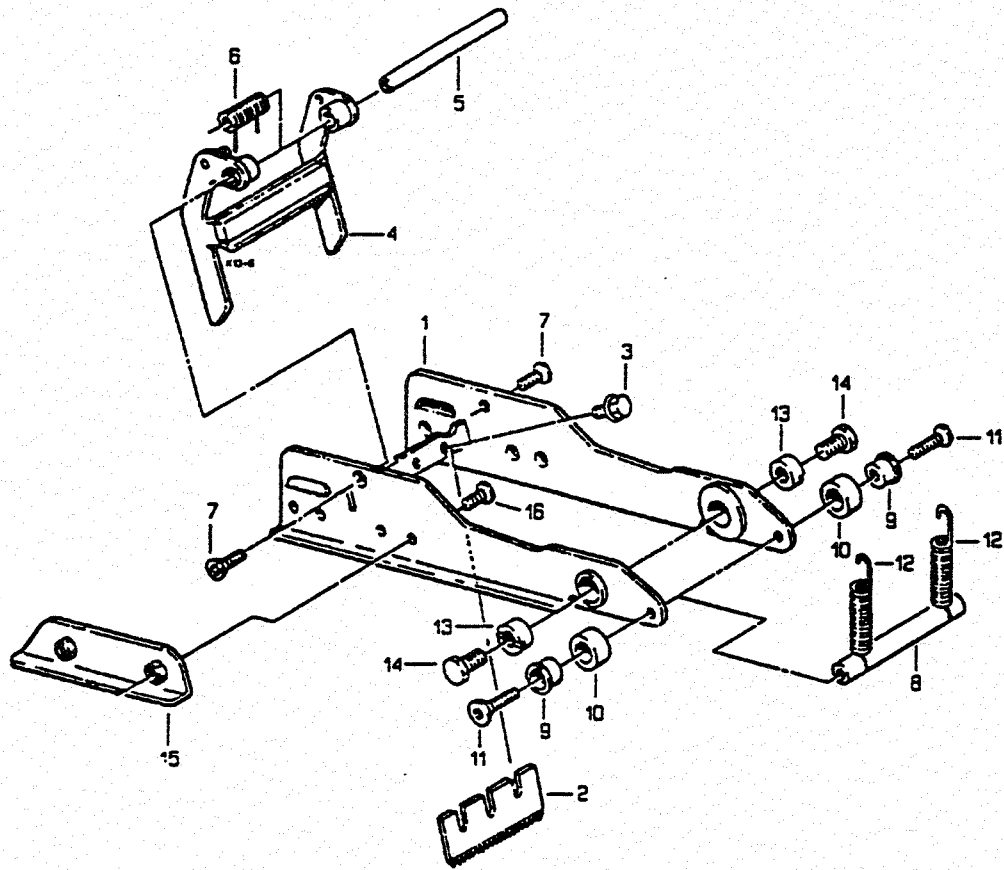


Figure 2883

Figure 2883

Ref. No.	3M Part No.	Description
2883-1	78-8070-1217-0	Frame - Cut-Off Weldment
2883-2	78-8017-9173-8	Blade - 2.56 Inch/65 mm
2883-3	26-1003-8596-7	Screw - Hex Hd M5 x 8 W/Ext. Tooth Washer
2883-4	78-8070-1371-5	Guard - Blade Assembly
2883-5	78-8052-6597-8	Shaft - Blade Guard
2883-6	78-8070-1390-5	Spring - Tension
2883-7	26-1005-4757-4	Screw - Flat Hd M4 x 100
2883-8	78-8017-9135-7	Shaft - Spacer
2883-9	78-8052-6600-0	Spacer
2883-10	78-8070-1269-1	Bumper
2883-11	26-1005-4758-2	Screw - Flat Hd M5 x 20
2883-12	78-8052-6602-6	Spring - Cutter
2883-13	78-8017-9132-4	Pivot - Cutter Lever
2883-14	26-1003-5828-7	Screw - Hex Hd M6 x 10
2883-15	78-8070-1216-2	Slide - Extension
2883-16	26-1008-6574-5	Screw - Flat Hd Phillips Dr M4 x 10

100a (2 Inch Width Taping Head)

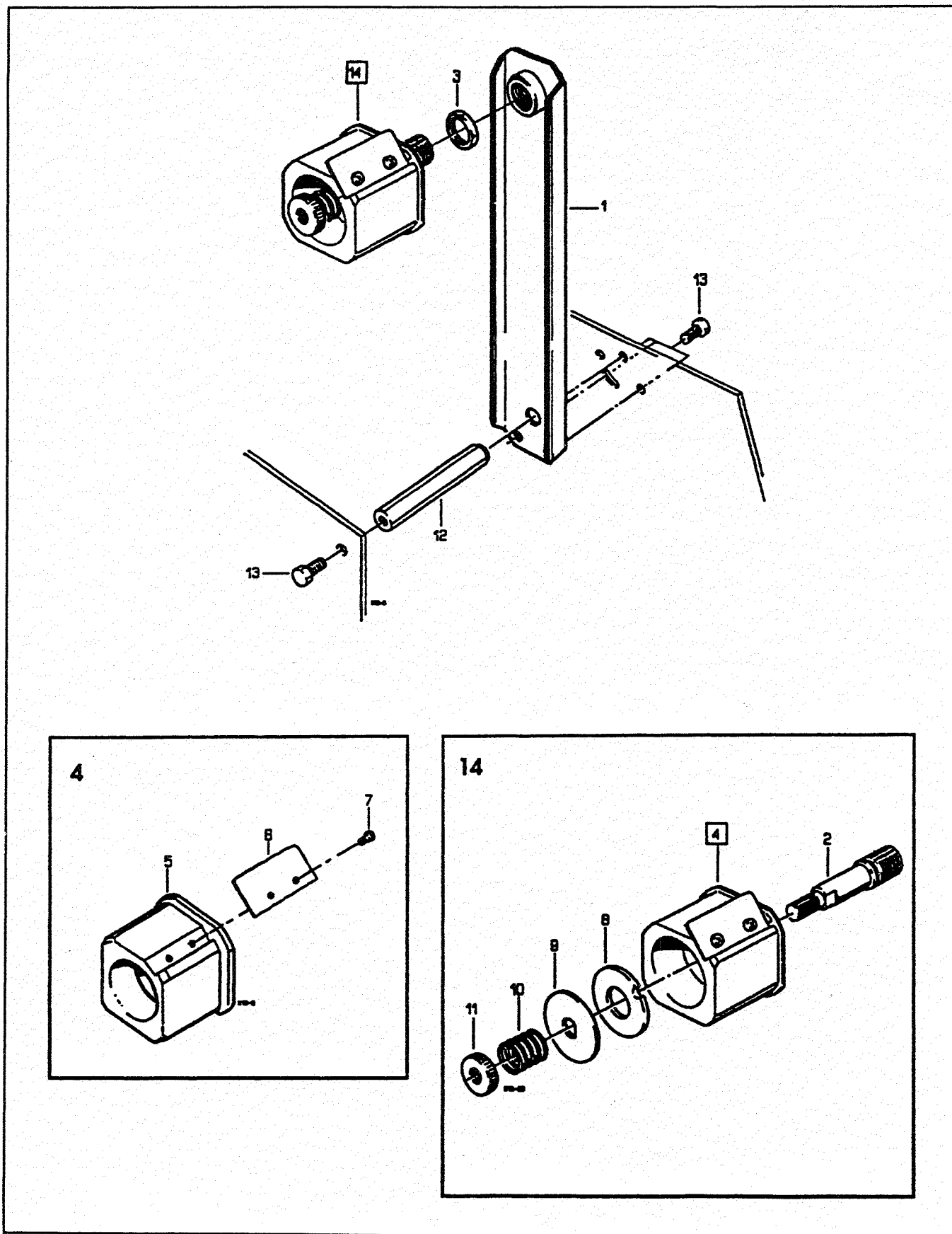


Figure 2884

Figure 2884

Ref. No.	3M Part No.	Description
2884-1	78-8070-1395-4	Bracket - Bushing Assembly
2884-2	78-8076-4519-3	Shaft - Tape Drum 2 Inch
2884-3	78-8017-9169-6	Nut - M18 x 1
2884-4	78-8070-1569-4	Tape Drum Assembly
2884-5	78-8052-6749-5	Tape Drum
2884-6	78-8052-6268-6	Leaf Spring
2884-7	26-1002-5753-9	Screw - Self Tapping
2884-8	78-8060-8172-1	Washer - Friction
2884-9	78-8052-6271-0	Washer - Tape Drum
2884-10	78-8054-8826-5	Spring
2884-11	78-8060-7851-1	Ring Nut - Adjusting
2884-12	78-8070-1215-4	Spacer - Stud
2884-13	26-1003-5828-7	Screw - Hex Hd M6 x 12
2884-14	78-8060-8474-1	Tape Drum Assembly - W/Hardware

100a (2 Inch Width Taping Head)

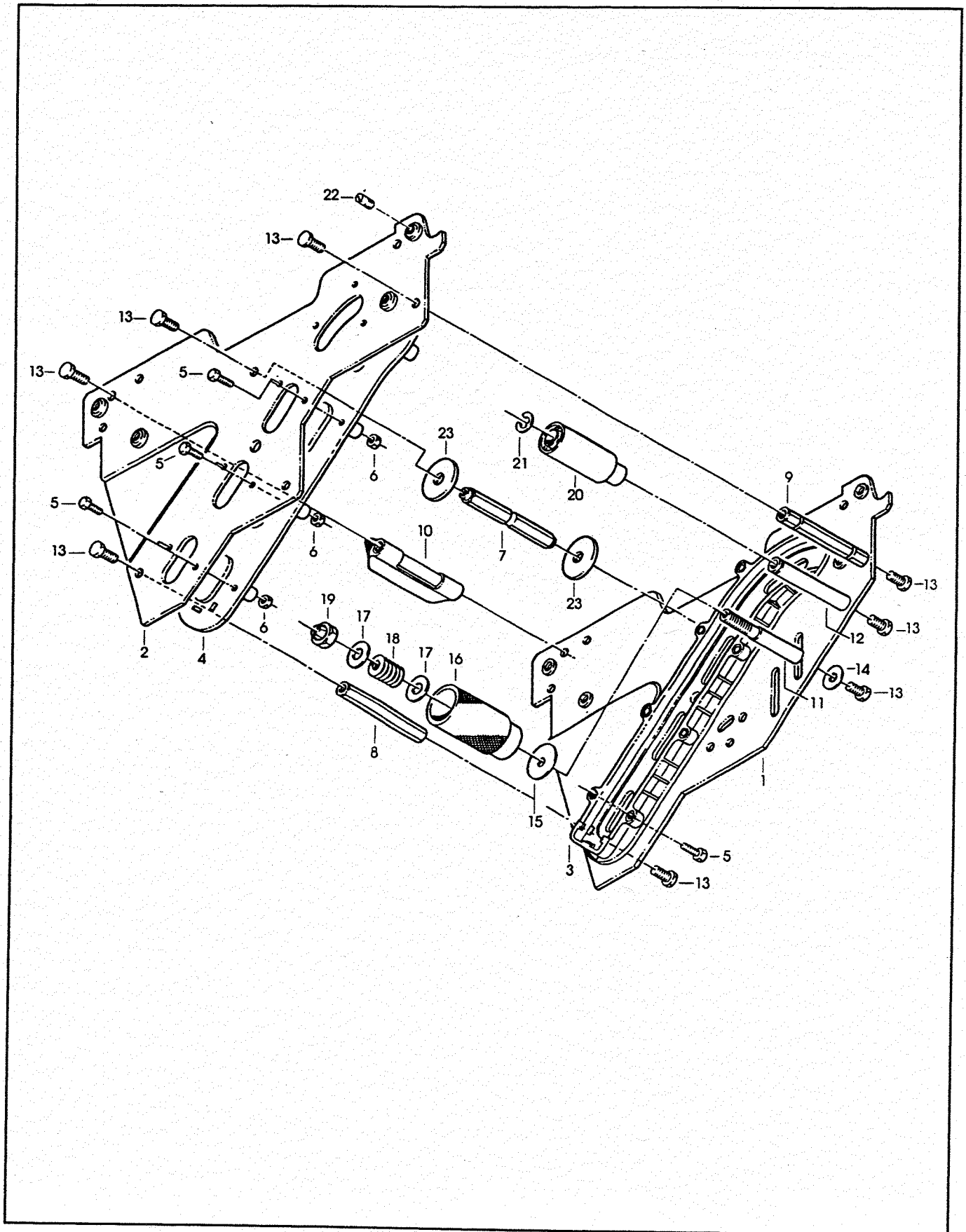


Figure 2885 Lower

Figure 2885 Lower

Ref. No.	3M Part No.	Description
2885-1	78-8070-1370-7	Frame - Front Lower Assembly
2885-2	78-8070-1369-9	Frame - Tape Mount Lower Assembly
2885-3	78-8068-4143-9	Guide - R/H
2885-4	78-8068-4144-7	Guide - L/H
2885-5	83-0002-7336-3	Screw - Hex Hd M4 x 14
2885-6	78-8010-7416-8	Nut - Hex M4
2885-7	78-8070-1251-9	Spacer - Spring
2885-8	78-8052-6559-8	Spacer - Upper
2885-9	78-8052-6560-6	Spacer - Front
2885-10	78-8060-7936-0	Brush Assembly
2885-11	78-8052-6564-8	Shaft - Tension Roller
2885-12	78-8052-6568-9	Shaft - Wrap Roller
2885-13	26-1003-5828-7	Screw - Hex Hd M6 x 12
2885-14	78-8042-2919-9	Washer - Triple M6
2885-15	78-8070-1268-3	Washer - Roll Back Up
2885-16	78-8052-6606-7	Roller - Tension Bottom
2885-17	78-8052-6566-3	Washer - Friction
2885-18	78-8052-6567-1	Spring - Compression
2885-19	78-8017-9077-1	Nut - Self Locking M10 x 1
2885-20	78-8052-6569-7	Roller - Wrap
2885-21	26-1000-1613-3	Ring - Retaining 1DIN6799
2885-22	78-8076-4500-3	Stud - Mounting
2885-23	78-8076-5242-1	Stop - Cut-Off Frame

100a (2 Inch Width Taping Head)

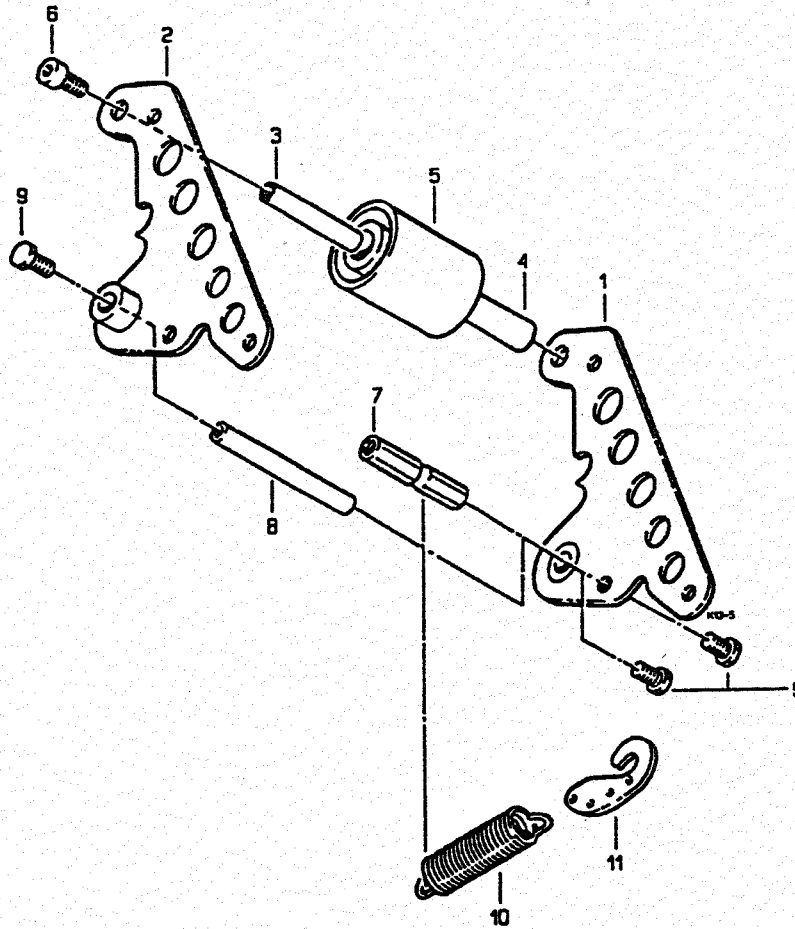
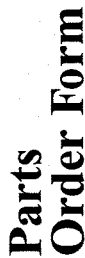


Figure 2886 Lower

Figure 2886 Lower

Ref. No.	3M Part No.	Description
2886-1	78-8070-1391-3	Buffing Arm Sub Assembly
2886-2	78-8070-1392-1	Buffing Arm Sub Assembly
2886-3	78-8052-6575-4	Shaft - Roller
2886-4	78-8052-6586-1	Bushing - Buffing Roller
2886-5	78-8057-6178-6	Roller - Buffing NM
2886-6	78-8076-4503-7	Screw - M6 x 12
2886-7	78-8070-1220-4	Spacer - Spring
2886-8	78-8017-9109-2	Shaft - 10 x 90 mm
2886-9	26-1003-5828-7	Screw - Hex Hd M6 x 10
2886-10	78-8070-1273-3	Spring - Lower (Black)
2886-11	78-8070-1244-4	Holder - Spring



– Shaded Areas To Be Filled In By 3M –

**Mail To: Dispenser Parts
241 Venture Drive
Amery, WI 54001**

**Fax or Call: 715-268-8126 (Wisc.)
800-344-9883 (Outside Wisc.)
FAX# 715-268-8153**

P.O. No.		Date		Catalog No.		Phone No. (Including Area Code)		Customer Name	
Attn.		Model No.		Serial No.		Sales Rep. No.		Invoice No.	
Ship To		Account No.		Tax Exempt No.		Special Instructions			
Charge Back		Do Not Charge Back		Via		Account No.		SIC	
<p style="text-align: center;">FAX Your Order For Faster Service FAX No. 715-268-8153</p>									
Qty.		Part Number		Description		Price			
1.									
2.									
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\$25.00 Minimum Order		<input type="checkbox"/> Ship Via Air At Customer Expense		Signature					

☐ Ship Via Air At Customer Expense

\$25.00 Minimum Order



