



## Instructions and Parts List

**3M-Matic**<sup>™</sup>

**AccuGlide**<sup>™</sup> HST

**2 Inch**

**Upper and Lower**

**Taping Heads**

**Type 41000**

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

For reference, record taping head(s) serial number(s) here.



**3M Industrial Adhesives and Tapes**

3M Center, Building 220-5E-06

St. Paul, MN 55144-1000



### Important Safety Information

BEFORE INSTALLING  
OR OPERATING THIS  
EQUIPMENT

Read, understand, and  
follow all safety and  
operating instructions.

### Spare Parts

It is recommended you  
immediately order the  
spare parts listed in the  
"Spare Parts/Service  
Information" section.

These parts are expected  
to wear through normal  
use, and should be kept  
on hand to minimize  
production delays.

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## Replacement Parts and Service Information

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### To Our Customers:

This is the 3M-Matic™/ AccuGlide™/Scotch® equipment you ordered. It has been set up and tested in the factory with Scotch® tapes.

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

### Technical Assistance / Replacement Parts and Additional Manuals:

For technical assistance, contact our help line at 1-800-328-1390. Provide the customer support coordinator with the model/machine name, machine type, and serial number that are located on the identification plate (For example: Model - Accuglide 2+ HST (2 inch) - Type 41000 - Serial Number 13282).

### To order replacement parts, contact us:

CSPD division of Combi Packaging Systems LLC.  
5365 East Center Dr. N.E.  
Canton, OH 44721

1-800-344-9883  
e-mail: [CSPD-CSR@combi.com](mailto:CSPD-CSR@combi.com)  
[www.combi.com](http://www.combi.com)

### Identification Plate

|   |                                       |   |   |                               |
|---|---------------------------------------|---|---|-------------------------------|
| <b>3M</b><br>3M Company St. Paul,<br>MN 55144 USA | Part Number<br><input type="text"/>   | <b>3M-Matic™</b><br>For Industrial Use Only |  |                               |
| Model<br><input type="text"/>                     | Serial Number<br><input type="text"/> | Year<br><input type="text"/>                | Ampere<br><input type="text"/>  | Watt<br><input type="text"/>  |
| Type<br><input type="text"/>                      |                                       | Volt<br><input type="text"/>                | Hertz<br><input type="text"/>   | Phase<br><input type="text"/> |



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## Replacement Parts And Service Information

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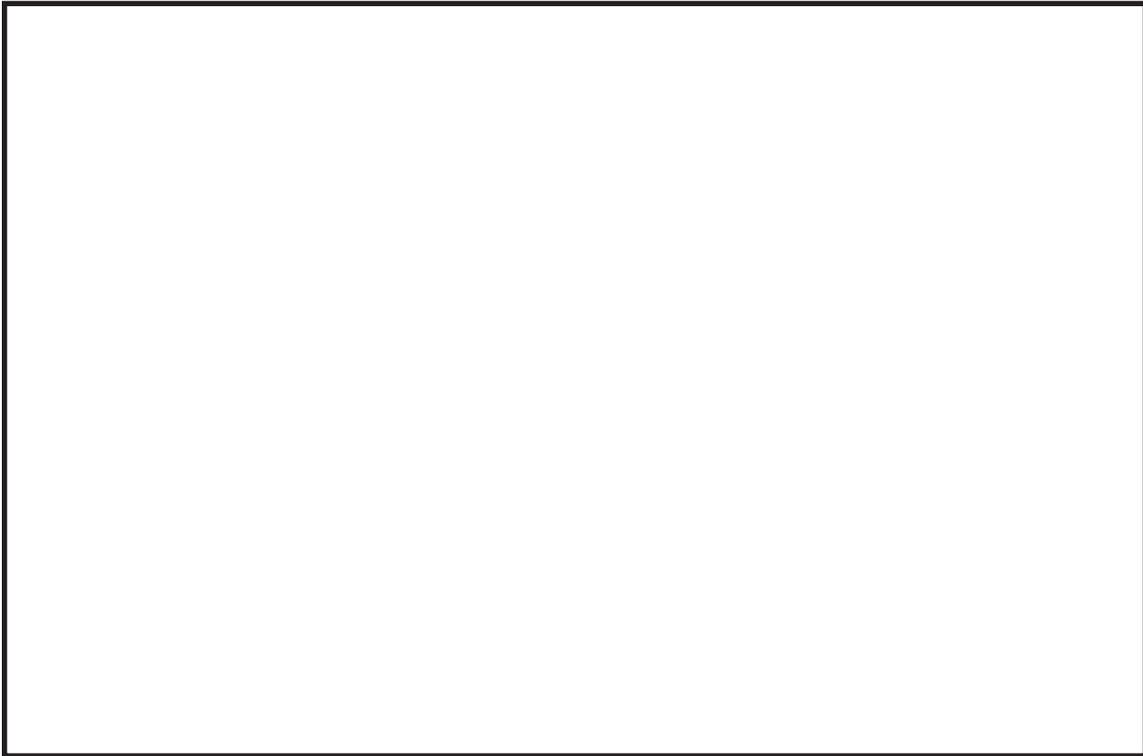
### To Our Customers:

This is the 3M-Matic™/ AccuGlide™/Scotch® equipment you ordered. It has been set up and tested in the factory with Scotch® 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 or additional manuals, include model/machine name, machine type, and serial number that are located on the identification plate.



#### **3M Industrial Adhesives and Tapes**

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St. Paul, MN 55144-1000

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# Instruction Manual

## AccuGlide™ HST 2 Inch Upper and Lower Taping Heads Type 41000

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## Warranty

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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, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE:

3M sells its **AccuGlide™ HST 2 Inch Upper and Lower Taping Heads, Type 41000** with the following warranty:

1. The Taping Head blade, springs and rollers will be free from defects in material and manufacture for ninety (90) days after delivery.
2. All other Taping Head parts will be free from defects in material and manufacture for three (3) years after delivery.

If any part is defective within this warranty period, your exclusive remedy and 3M's and seller's sole obligation shall be, at 3M's option, to repair or replace the part. 3M must receive actual notice of any alleged defect within a reasonable time after it is discovered, but in no event shall 3M have any obligation under this warranty unless it receives such notice within five (5) business days after the expiration of the warranty period. All notices required hereunder shall be given to 3M solely through the 3M-Matic™ Help line (800-328-1390). To be entitled to repair or replacement as provided under this warranty, the part must be returned as directed by 3M to its factory or other authorized service station designated by 3M. If 3M is unable to repair or replace the part within a reasonable time after receipt thereof, 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 remove any part or equipment or to install the repaired or replacement part or equipment. 3M shall have no obligation to repair or replace those parts failing due to normal wear, inadequate or improper maintenance, inadequate cleaning, non-lubrication, improper operating environment, improper utilities, operator error or misuse, alteration or modification, mishandling, lack of reasonable care, or due to any accidental cause.

**Limitation of Liability:** Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from this 3M equipment, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including breach of warranty, breach of contract, negligence, or strict liability.

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

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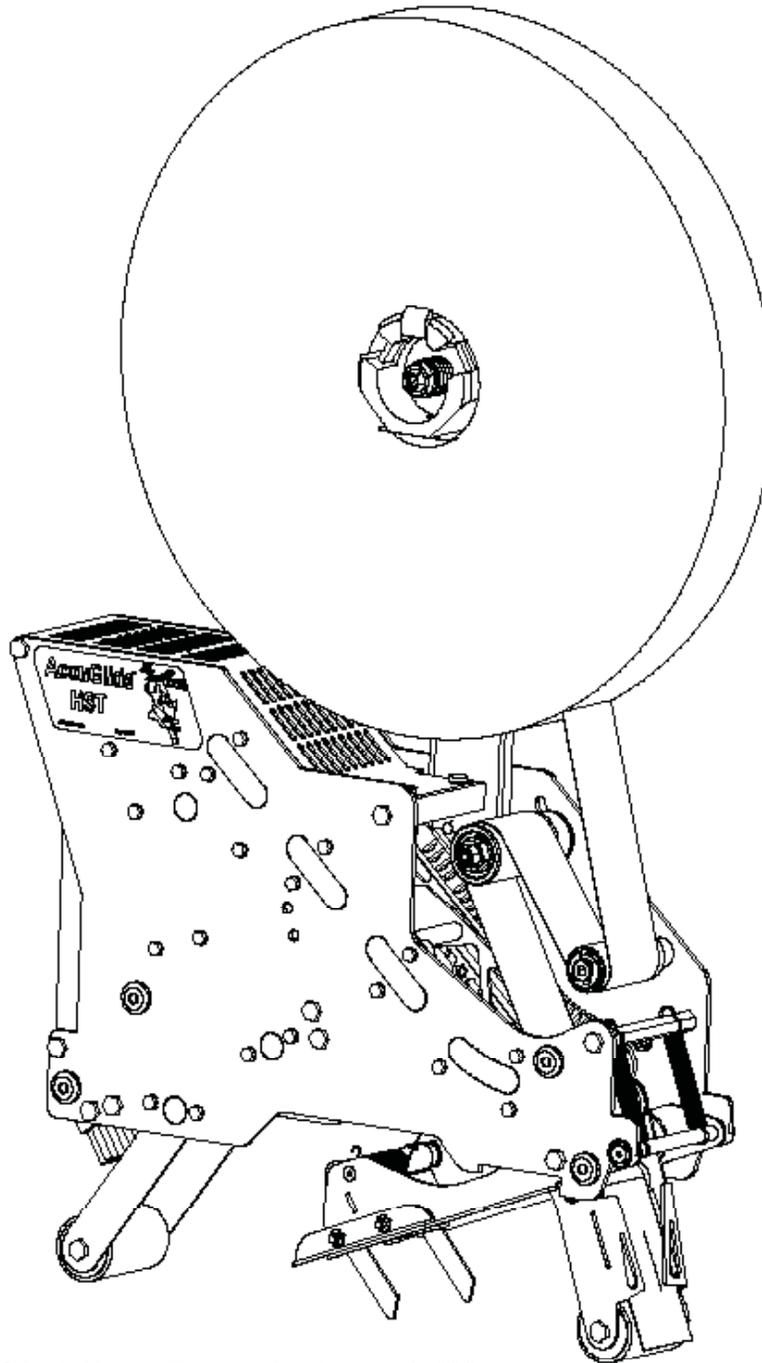
## Intended Use

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The intended use of the **AccuGlide™ HST 2 Inch Upper and Lower Taping Heads** is to apply a "C" clip of Scotch® pressure-sensitive film box sealing tape to the top and/or bottom center seam of regular slotted containers.

These taping heads are incorporated into most standard **3M-Matic™** case sealers. The compact

size and simplicity of the taping head also makes it suitable for mounting in box conveying systems other than **3M-Matic™** case sealers. This includes replacement of other types of taping, gluing or stapling heads in existing case sealing machines. The **AccuGlide™ AccuGlide HST 2" Taping Head - NAs** have been designed and tested for use with Scotch® pressure-sensitive film box sealing tape.



**AccuGlide™ HST 2 Inch Upper Taping Head, Type 41000**

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## Taping Head Contents

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AccuGlide™ HST 2 Inch Upper and Lower Taping Heads consist of:

| Qty. | Part Name                      |
|------|--------------------------------|
| 1    | Taping Head Assembly           |
| 1    | Tape Drum and Bracket Assembly |
| 1    | Hardware and Spare Parts Kit   |
| 1    | Threading Tool                 |

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## General Information

---

This instruction manual covers safety aspects, handling and transport, storage, unpacking, preparation, installation, operation, set-up and adjustments, technical and manufacturing specifications, maintenance, troubleshooting, repair work and servicing, electric diagrams, warranty information, disposal (ELV), a glossary with a definition of symbols, and a parts list of the 3M-Matic™ HST 2" / 3M Industrial Adhesives and Tapes Division 3M Center, Bldg. 220-5E-06 St. Paul, MN 55144-1000 (USA) / Edition April 2013 / Copyright 3M 2013 / All rights reserved. The manufacturer reserves the right to change the product at any time without notice.  
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## How to use this Manual

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The manual is an important part of the machine; all information contained herein is intended to enable the equipment to be maintained in perfect condition and operated safely. Ensure that the manual is available to all operators of this equipment and the manual is kept up to date with all subsequent amendments. Should the equipment be sold or disposed of, please ensure that the manual is passed on with the machine.

Electrical and pneumatic diagrams are included in the manual. Equipment using PLC controls and/or electronic components will include relevant schematics or programs in the enclosure (or will be delivered separately as needed).

Keep the manual in a clean and dry place near the machine. Do not remove, tear or rewrite parts of the manual for any reason. Use the manual without damaging it. However, if the manual has been lost or damaged, ask your after sale service for a new copy (if it is possible, please have the manual name, part number, and revision information and/or model/machine name, machine type, and serial number) that are located on the identification plate (For example: Model - AccuGlide - HST 2" - Type 41000 - Serial Number 13282).

**Note:**

All the important warning notes related to the operation of the machine are identified by the symbol:



## Updating the Manual

Modifications to the machine are subject to manufacturer's internal procedures. The user may receive pages or parts of the manual which contain amendment made after its first publication. The user must use them to update this manual.

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## Important Safeguards

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This safety alert symbol identifies important safety messages in this manual.

**READ AND UNDERSTAND THEM BEFORE INSTALLING OR OPERATING THIS EQUIPMENT.**

### Explanation of Signal Word Consequences



**CAUTION:** Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage.



**WARNING:** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage.



## CAUTION

- **To reduce the risk associated with muscle strain:**
  - Use proper body mechanics when removing or installing taping heads that are moderately heavy or may be considered awkward to lift
- **To reduce the risk associated with impact hazards:**
  - Place the taping head on a smooth level surface when maintaining or servicing this equipment



## WARNING

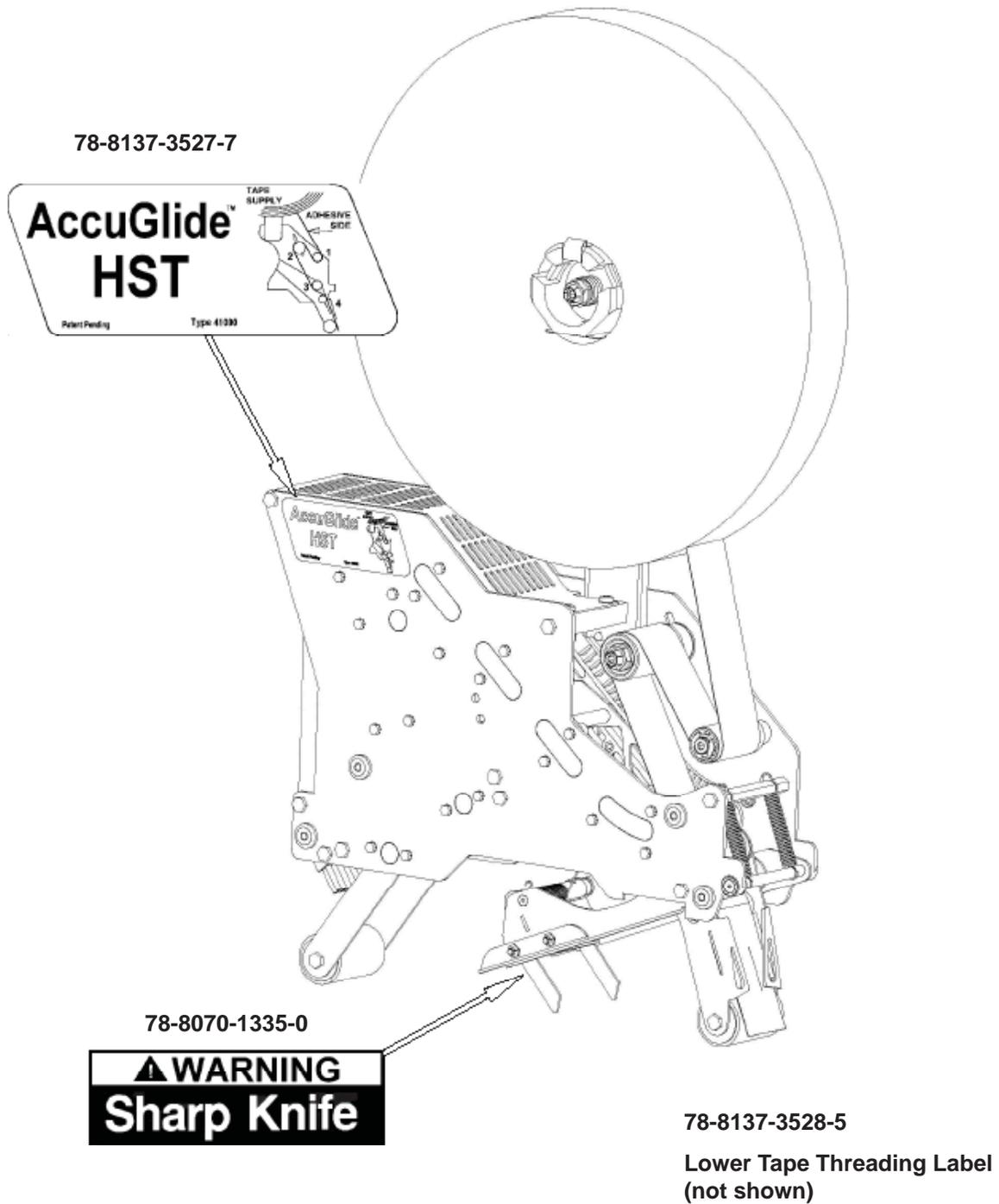
- **To reduce the risk associated with mechanical hazards:**
  - Read, understand and follow all safety and operating instructions before operating or servicing the case sealer
  - Allow only properly trained and qualified personnel to operate and/or service this equipment
- **To reduce the risk associated with shear, pinch, and entanglement hazards:**
  - Turn air and electrical supplies off on associated equipment before performing any adjustments, maintenance, or servicing the taping heads
  - Never attempt to work on the taping head or load tape while the box drive system is running
- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp

(Important Safeguards continued on next page)

**Important Safeguards** (continued)

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**Important** - In the event the following safety labels are damaged or destroyed, they must be replaced to ensure operator safety. See "Replacement Parts Illustrations and Parts Lists" for label part numbers.



**Figure 1-1 Replacement Labels/3M Part Numbers**

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## Specifications

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1. **Tape:**

For use with Scotch® pressure-sensitive film box sealing tapes.

2. **Tape Width:**

36mm or 1-1/2 inches minimum to 48mm [2 inches] maximum.

3. **Tape Roll Diameter:**

Up to 405mm [16 inches] maximum on a 76.2mm [3 inch] diameter core.  
(Accommodates all system roll lengths of Scotch® film tapes.)

4. **Tape Application Leg Length - Standard:**

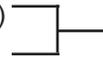
70mm ± 10mm [2-3/4 inches ± 3/8 inch]

**Tape Application Leg Length - Optional:**

50mm ± 10mm [2 inches ± 3/8 inch] (See "Adjustments – Tape Leg Length.")

5. **Box Size Capacities:**

For use with center seam regular slotted containers.

| <b>Minimum</b> |   |   | <b>Maximum</b>         |
|----------------|---|---|------------------------|
| Length –       | 150mm [6 inches]                                      |   | Unlimited              |
| Height –       | 120mm [4-3/4 inches] (most “3M-Matic” Case Sealers)   |  | Limited by Case Sealer |
|                | 90mm [3-1/2 inches] (with optional 2 inch leg length) |   |                        |
| Width –        | 115mm [4-1/2 inches]                                  |   |                        |

When upper and lower taping heads are used on “**3M-Matic**” case sealers, refer to the respective instruction manual specifications for box weight and size capacities.

6. **Operating Rate:**

Conveyor speeds up to 0.76 m/s [150 FPM] maximum.

7. **Operating Conditions:**

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

**Important** – Taping heads should not be washed down or subjected to conditions causing moisture condensation on components.

8. **Taping Head Dimensions:**

|          |   |
|----------|---|
| Length – | 431mm [16-15/16 inches]                               |
| Height – | 560mm [22 inches] (with tape drum)                    |
| Width –  | 104mm [4-1/8 inches] (without mounting spacers)       |
| Weight – | Packaged: 7.7kg [17 lbs.] Unpackaged: 6.7kg [15 lbs.] |

(Specifications continued on next page.)



## Installation



### WARNING

- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards.  
The blades are extremely sharp.

### Receiving And Handling

After the taping head assembly has been unpackaged, examine the unit for damage that might have occurred during transit. If damage is evident, file a damage claim immediately with the transportation company and also notify your 3M Representative.

### Installation Guidelines

The taping head assembly can be used in converting existing or in custom made machinery. It can be mounted for top taping or bottom taping. Refer to "Box Size Capacities," as well as **Figure 2-1** in the Specifications section, for the following points in making such installations:



### CAUTION

- **To reduce risk associated with muscle strain:**
  - Use proper body mechanics when removing or installing taping heads that are moderately heavy or may be considered awkward to lift

**Important** – Always conduct a hazard review to determine appropriate guarding requirements when the installation is in an application other than 3M-Matic™ equipment.

1. The box conveying system must positively propel the box in a continuous motion, not exceeding 0.76m/s [150 feet per minute], past the taping head assembly since the box motion actuates the taping mechanism.
2. If a pusher or cleated conveyor is being used, steps should be taken in the conveyor design to prevent the pusher from contacting the applying or buffing roller arms resulting in damage to the taping head.

3. **Figure 2-1** illustrates the typical mounting relationship for opposing taping head assemblies to allow taping of box heights down to 90mm [3-1/2 inches]. To tape box heights down to 70mm [2-3/4 inches], the taping heads must be completely staggered so only one tape seal is being applied at one time.

**Note** – AccuGlide™ HST 2" Upper Taping Head is supplied with a buffing arm guard. Adjustments to this guard may be required to install the taping head into some older design 3M-Matic™ case sealers.

4. Mounting studs are provided with the taping head, but special installations may require alternate means for mounting.
5. Box hold-down or guide skis should be provided and the taping head mounted so that the side plates are 6mm [1/4 inch] maximum away from the ski surface on which the box rides.

### Tape Leg Length

Taping heads are factory set to apply standard 70mm [2-3/4 inch] tape legs. The heads can be converted to apply 50mm [2 inch] tape legs if desired but both upper and lower heads must be set to apply the same tape leg length. See "Adjustments – Changing Tape Leg Length From 70 to 50mm [2-3/4 to 2 Inches]."

Also, the conveyor speed at which the product moves through the taping heads, affects the leading and trailing tape leg length. See "Adjustments section – Leading Tape Leg Length Adjustment."

### Tape Width Adjustment

Taping heads are factory set to apply 48mm [2 inch] wide tape. If it is necessary to align the tape or to apply narrower tapes, refer to "Adjustments – Tape Web Alignment" for set-up procedure.

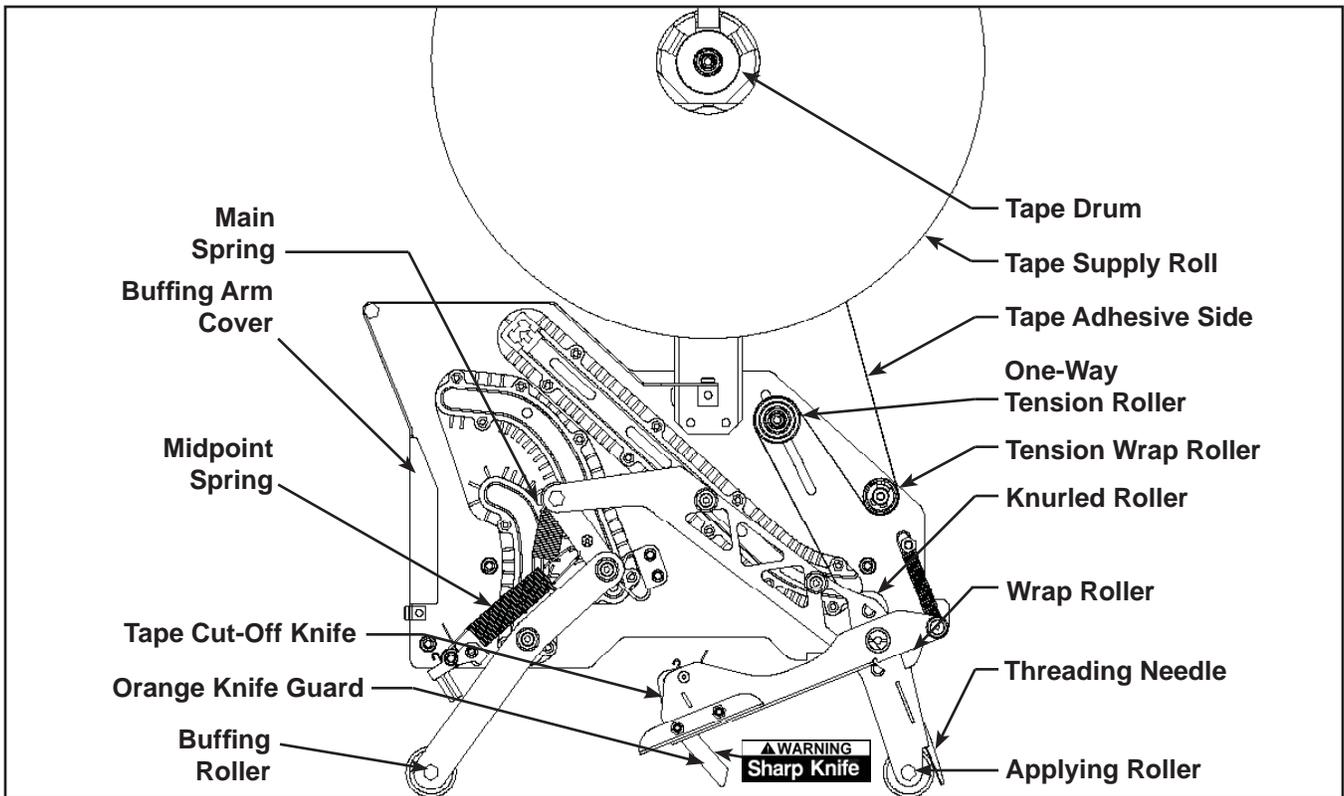


Figure 3-1 Taping Head Components/Threading Diagram - Upper Head (Left Side View)

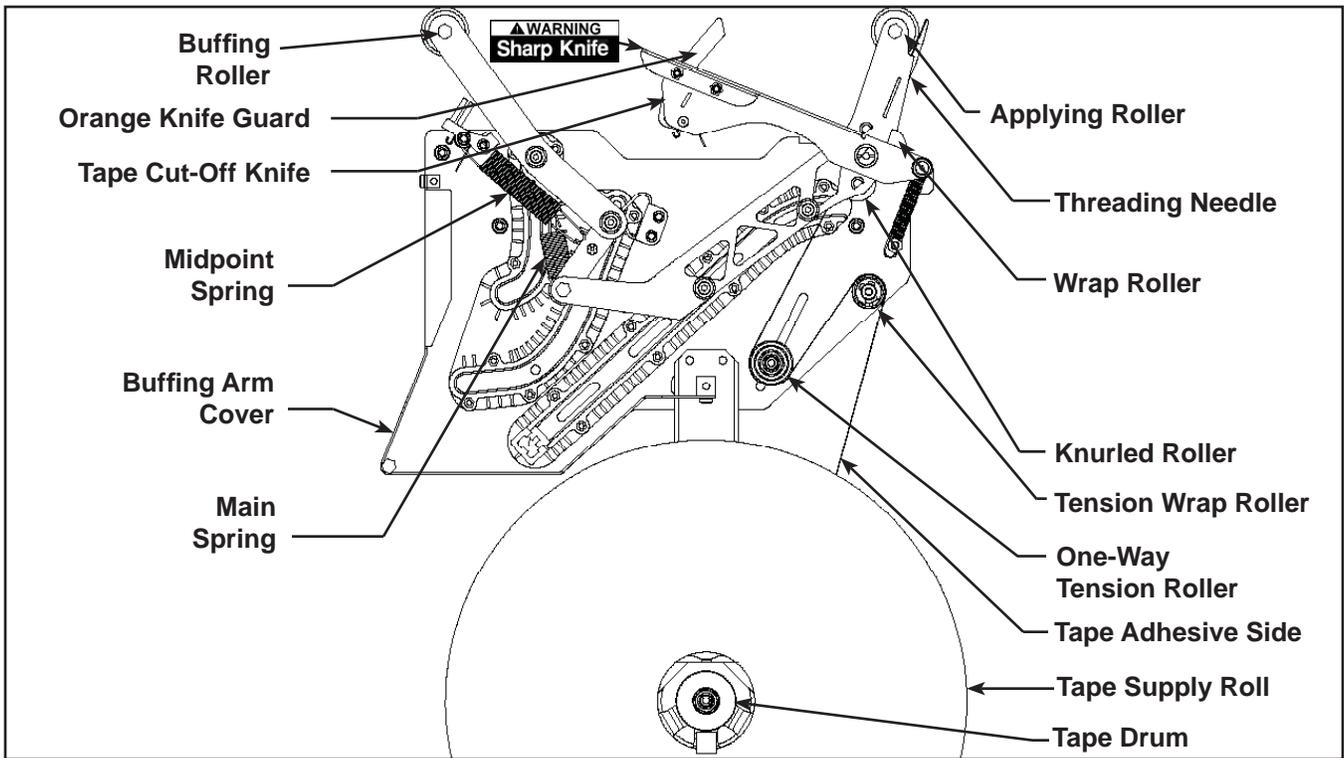


Figure 3-2 Taping Head Components/Threading Diagram - Lower Head (Left Side View)

(Operation continued on next page.)



## WARNING

- **To reduce the risk associated with shear, pinch, and entanglement hazards:**
  - Turn air and electrical supplies off on associated equipment before performing any adjustments, maintenance, or servicing the machine or taping heads
  - Never attempt to work on the taping heads or load tape when the box drive system is running
- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards.  
The blades are extremely sharp

It is recommended that the detailed instructions and sketches in this manual be referred to the first few times the taping head is loaded/threaded until the operator becomes thoroughly familiar with the tape loading operation.

**Note** – Remove tape roll before removing taping head from machine to minimize weight.



## CAUTION

- **To reduce the risk associated with muscle strain:**
  - Use proper body mechanics when removing or installing taping heads that are moderately heavy or may be considered awkward to lift
- **To reduce the risk associated with impact hazards:**
  - Place the taping head on a smooth level surface when maintaining or servicing this equipment

### Tape Loading – Upper Taping Head

1. Place the upper taping head in a convenient working position.
2. Use **Figures 3-3 to 3-5** and tape threading label. Position the tape supply roll so the adhesive side of tape is facing the front of the taping head as it is pulled from the supply roll.
3. Attach the threading needle to the end of the roll. Guide the threading needle around the wrap roller (Position 1) then back around the one-way tension roller (Position 2).
4. Continue pulling the threading needle down and guide it between the two rollers on the apply arm (Position 3).

5. Pull the threading needle down until the tape travels between the apply plate and the ears of the apply arm (Position 4) until it extends past the applying roller. When properly threaded the adhesive side of the tape should be facing the knurled rollers at position 2 and also position 3.
6. Cut away any excess tape.

**Important** – Do not cut against the apply roller - roller damage could occur.

### Tape Loading – Lower Taping Head

1. Remove the lower taping head from the conveyor bed or associated equipment and place it a convenient working position.
2. The lower taping head is loaded and threaded in the same manner as the upper head. Follow the upper taping head tape loading/threading procedure.

### Figure 3-3

Insert threading needle through rollers in direction indicated by arrows.

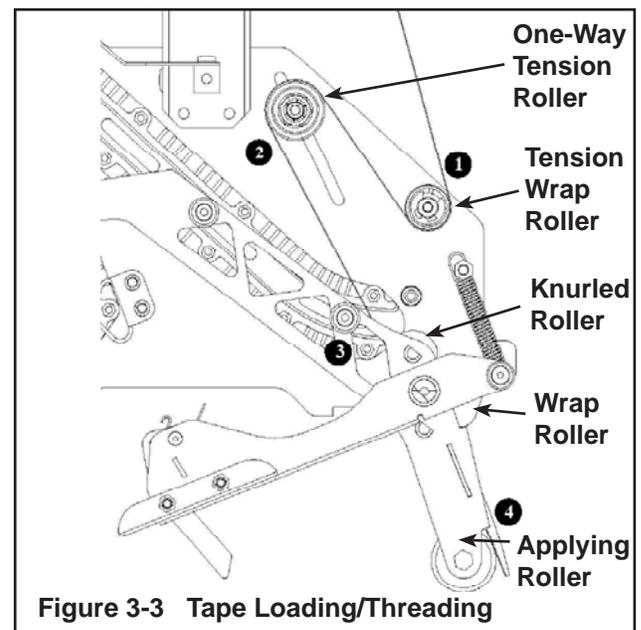
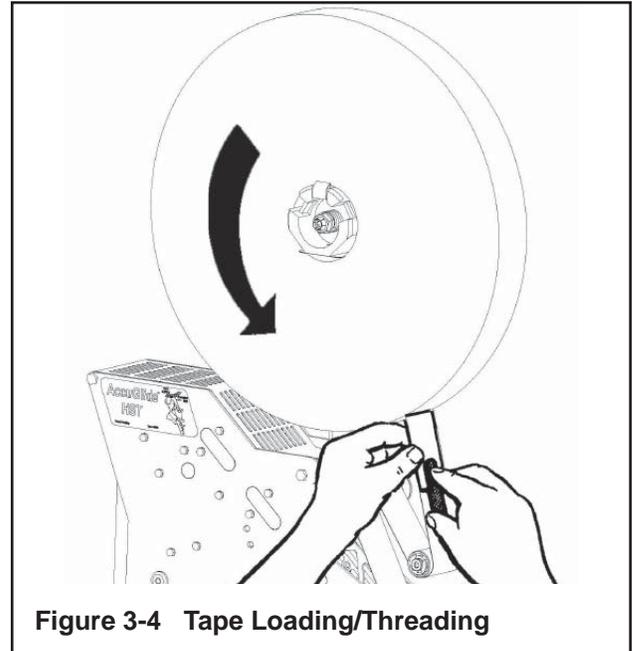


Figure 3-3 Tape Loading/Threading

**Figure 3-4**

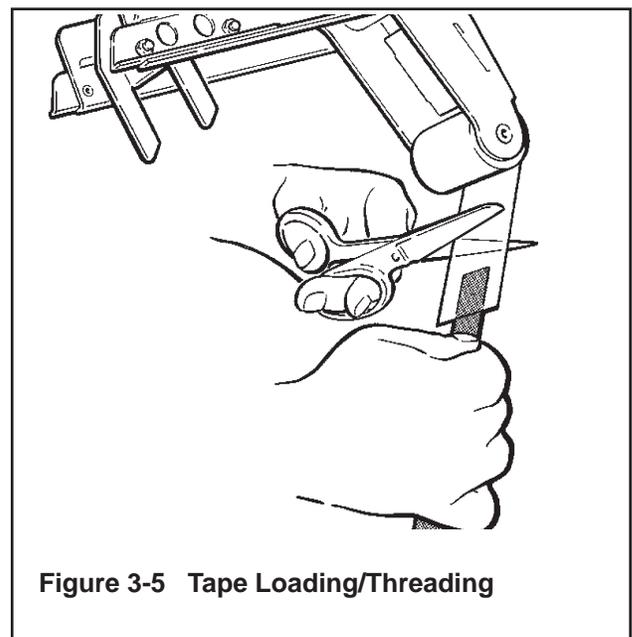
Place tape roll on tape drum to dispense tape with adhesive side forward. Seat tape roll fully against back flange of drum. Adhere tape lead end to threading needle as shown.



|   |                |
|---|----------------|
|    | <b>WARNING</b> |
| <ul style="list-style-type: none"><li>• <b>To reduce the risk associated with sharp blade hazards:</b></li><li>- Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp.</li></ul> |                |

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

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





**WARNING**

- **To reduce the risk associated with shear, pinch, and entanglement hazards:**
  - Turn air and electrical supplies off on associated equipment before performing any adjustments, maintenance, or servicing the taping heads
  - Never attempt to work on the taping head or load tape while the box drive system is running
- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp

The AccuGlide™ HST 2 Inch Taping Head has been designed for long, trouble free service. The taping head will perform best when it receives routine maintenance and cleaning. Taping head components that fail or wear excessively should be promptly repaired or replaced to prevent damage to other portions of the head or to the product.

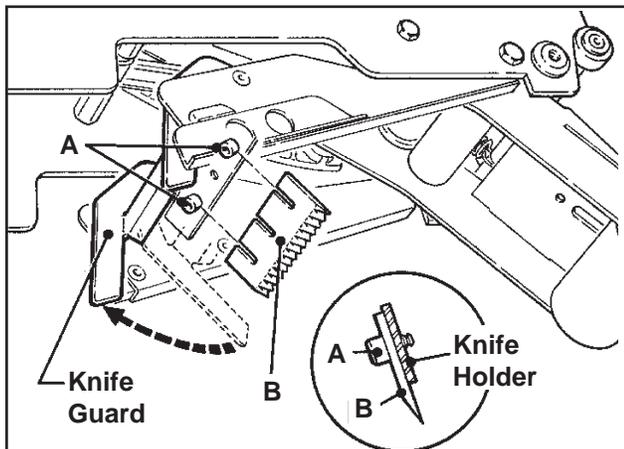
**Blade Replacement, Upper and Lower Taping Heads – Figure 4-1**



**WARNING**

- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp

1. Loosen, but do not remove, the blade screws (A). Remove and discard old blade.
2. Mount the new blade (B) with the beveled side away from the blade holder.



**Figure 4-1 Blade Replacement**

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.

**Note** – Check the blade position to insure proper clearance between blade and guard by slowly pivoting the blade guard back.

**Blade Guard**

The blade guard covers the blade whenever a box is not being taped. Periodically check to be sure the blade guard is functioning properly and returning to cover the blade. Replace any defective parts.

**Blade Oiler Pad**



**WARNING**

- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp

To reduce adhesive build-up, the taping heads are equipped with a factory pre-lubricated felt oiler pad that provides a film of oil on the cutting edge of the blade. Blade maintenance should include keeping the felt oiler pad saturated with SAE #30 non-detergent oil.

Should tape adhesive build-up occur on blade, carefully wipe clean with an oily cloth.

(Maintenance continued on next page.)



## WARNING

- **To reduce the risk associated with shear, pinch, and entanglement hazards:**
  - Turn air and electrical supplies off on associated equipment before performing any adjustments, maintenance, or servicing the taping heads
  - Never attempt to work on the taping head or load tape while the box drive system is running
- **To reduce the risk associated with sharp blade hazards:**
  - Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp

### Cleaning

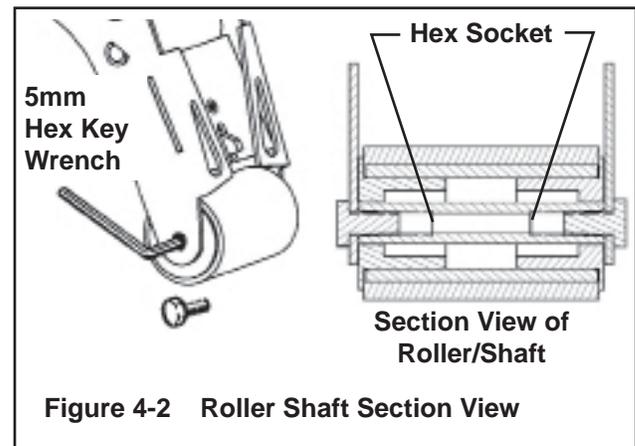
Regular slotted containers produce a great deal of dust and paper chips when conveyed through taping heads. If this dust is allowed to build-up on the heads, it can cause wear on the moving parts. Excessive dirt build-up should be wiped off with a damp cloth. Cleaning should be done once per month, depending on the number and type of boxes used. If the boxes used are dirty, or if the environment in which the heads operate is dusty, cleaning on a more frequent basis may be necessary.

**Note** – Never attempt to remove dirt from taping heads by blowing it out with compressed air. This can cause the dirt to be blown inside the components onto sliding surfaces. Dirt in these areas can cause serious equipment damage. Never wash down or subject taping heads to conditions causing moisture condensation on components. Serious equipment damage could result.

### Applying/Buffering Roller Replacement

Replacing roller requires removal of shaft and mounting screws. With no area on the shaft to grip, the shaft often turns when attempting to remove the second screw.

To ease removal of second screw, a 5mm hex socket has been provided at the bottom of the threads in both ends of the shaft. Insert a 4mm hex key wrench into this socket after removing one screw to hold the shaft for removal of the second screw. See **Figure 4-2**.





### WARNING

- **To reduce risk associated with shear, pinch, and entanglement hazards:**
  - Turn air and electrical supplies off associated equipment before performing any adjustments, maintenance, or servicing the machine or taping heads.
  - Never attempt to work on the taping head or load tape while the box drive system is running.

### Tape Latch Alignment – Figure 5-1

The Latching tape drum assembly is pre-set to accommodate 48mm [2 inch] wide tape. The tape drum assembly is adjustable to provide alignment of narrower tapes.

To move the latch to a position that corresponds to a new tape core width (**Figure 5-1**):

1. Remove screw from the latch.
2. Move to the latch to the position that corresponds to the tape core width.
3. Replace screw in the new latch location.

To adjust or center the tape width on the centerline of the taping head, and therefore box center seam, (**Figure 5-2**):

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

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 self-locking nut on the shaft to vary compression of the spring. Turn the nut clockwise to increase the braking force, and counterclockwise to decrease the braking force. Adjust brake to minimum tension to prevent excessive tape roll over travel.

**Note** – Excess braking force will cause poor tape application and may lead to tape tabbing on the trailing tape leg.

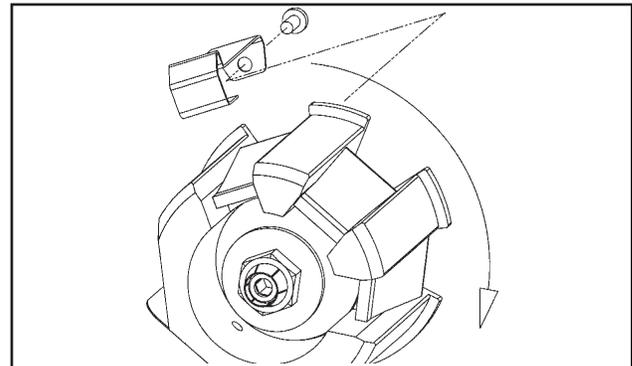


Figure 5-1 Tape Latch Alignment

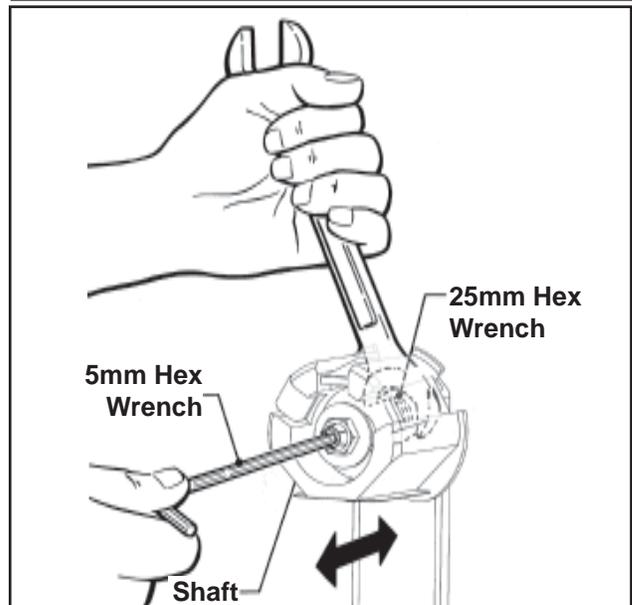


Figure 5-2 Tape Web Alignment

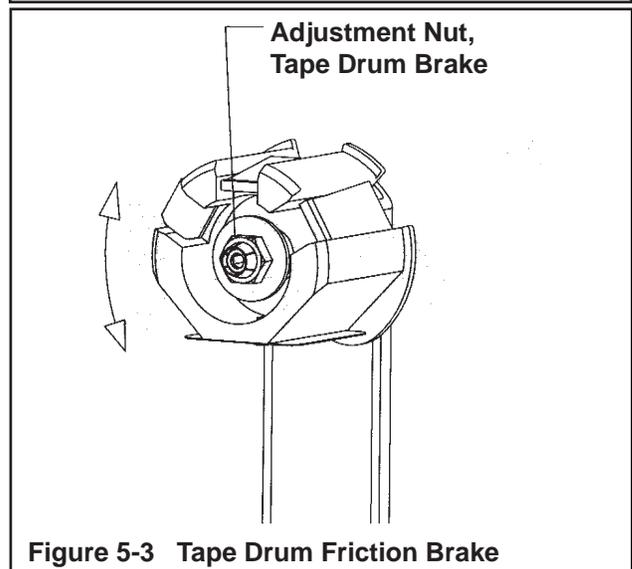


Figure 5-3 Tape Drum Friction Brake

(Adjustments continued on next page.)



**WARNING**

- **To reduce risk associated with shear, pinch, and entanglement hazards:**
  - Turn air and electrical supplies off associated equipment before performing any adjustments, maintenance, or servicing the machine or taping heads.
  - Never attempt to work on the taping head or load tape while the box drive system is running.

**Applying Mechanism Spring**

To obtain access to the spring, remove the taping head cover (four mounting screws). Replace cover when finished.

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

If a tape gap appears on the trailing surface of the box increase spring pressure. If the front of the box is being crushed by the applying roller decrease spring pressure.

Removing the spring end loop from the spring holder and placing loop in other holes provided, as shown in **Figure 5-4B**, will adjust the spring pressure.

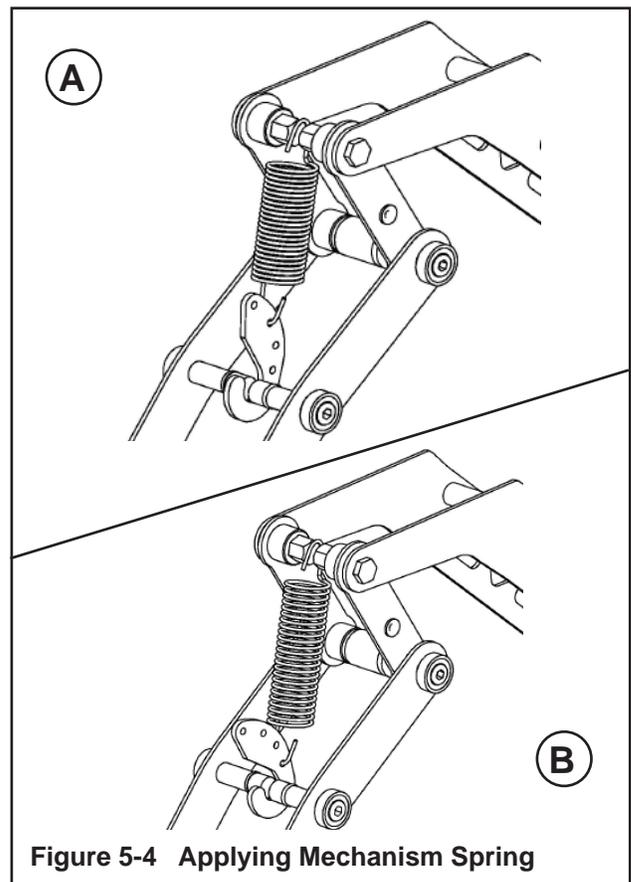
**One-Way Tension Roller**

**Figure 5-5**

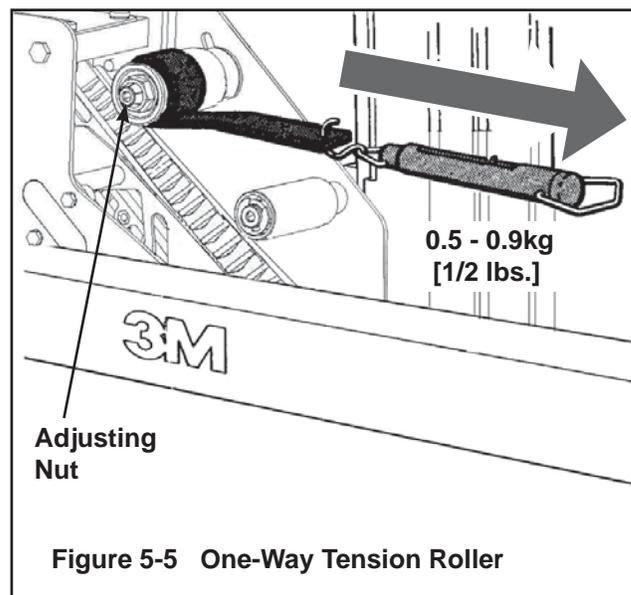
The one-way tension roller is factory set. When replacing this assembly, the roller must have 0,5 kg [1 lb.] minimum tangential force when turning.

To Adjust 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 with the socket wrench provided, until a force of approximately 0.5 kg to 0.9 kg [1 to 2 lbs.] is required to turn the roller by pulling on the spring scale.



**Figure 5-4 Applying Mechanism Spring**



**Figure 5-5 One-Way Tension Roller**

(Adjustments continued on next page.)



**WARNING**

- To reduce risk associated with shear, pinch, and entanglement hazards:
  - Turn air and electrical supplies off associated equipment before performing any adjustments, maintenance, or servicing the machine or taping heads.
  - Never attempt to work on the taping head or load tape while the box drive system is running.

**Tape Leg Length**



**WARNING**

- To reduce the risk associated with sharp blade hazards:
  - Keep hands and fingers away from tape cutoff blades under orange blade guards. The blades are extremely sharp

**Leading Tape Leg Length Adjustment – Figure 5-6**

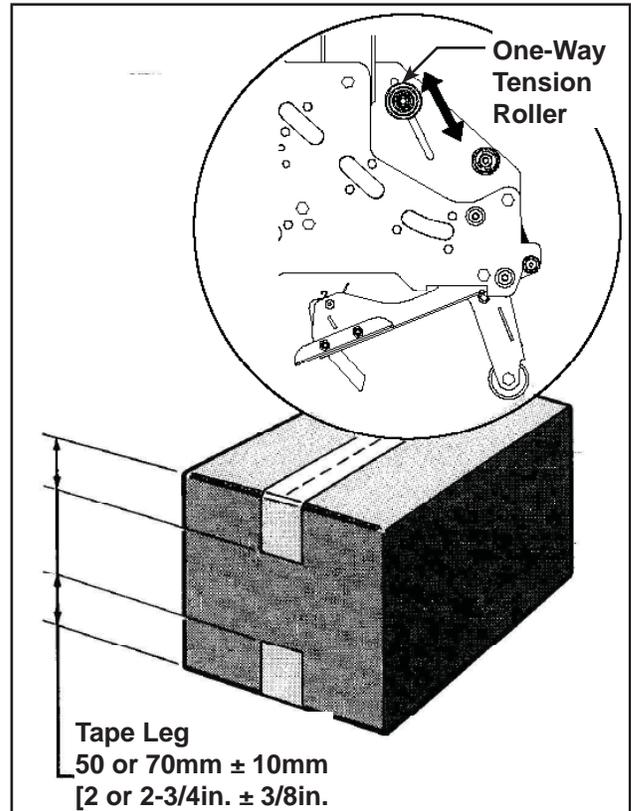
The one-way tension roller position is adjustable to control the leading tape leg length.

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.

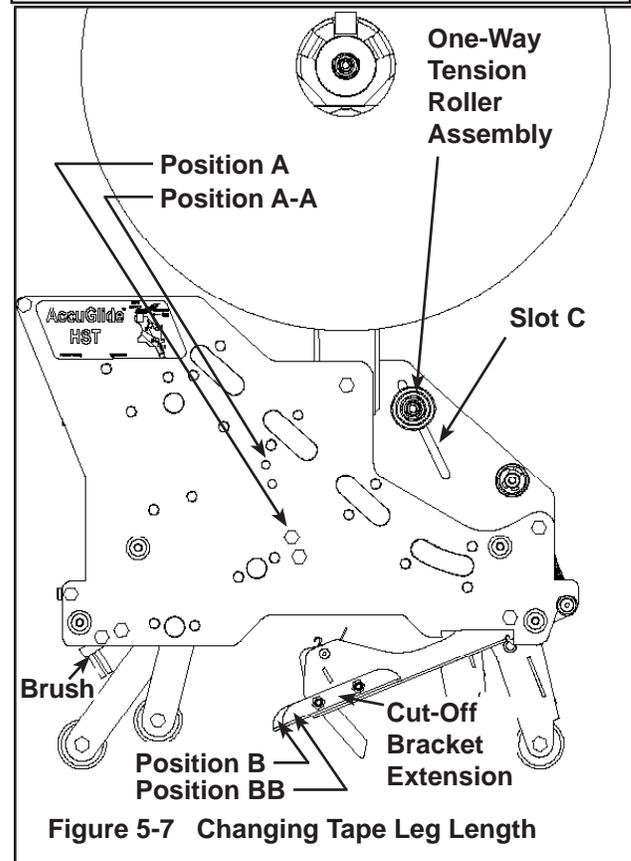
**Changing Tape Leg Length from 70 to 50mm [2-3/4 to 2 Inches] – Figure 5-7**

**Note** – When changing tape leg length, both upper and lower heads must be adjusted to apply the same leg lengths.

1. Remove and retain two hex head screws from normal position "A" on side frame.
2. Remount and secure in position "A-A" on side frame vertically from the normal location using original fasteners.
3. Remove cut-off bracket extensions from position "B" .
4. Remount cut-off bracket extensions in forward position "B-B".
5. Adjust tension roller in slot "C" according to instructions above "Leading Tape Leg Length Adjustment".



**Figure 5-6 Leading Tape Leg Length**



**Figure 5-7 Changing Tape Leg Length**

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## Troubleshooting

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### Troubleshooting Guide

| <b>Problem</b>  | <b>Cause</b>   | <b>Correction</b>   |
|---|--|---|
| 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 alignments  |
|   | The one-way tension roller is not correctly positioned                 | Position the roller in its mounting slot so that the tape extends just beyond the centerline 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 tension roller   |
|   | Adhesive has built 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 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.          |

## Troubleshooting (continued)

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### Troubleshooting Guide

| <b>Problem</b>   | <b>Cause</b>   | <b>Correction</b>   |
|--|--|---|
| Tape is tabbing on the trailing 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   | Re thread the tape  |
|  | Applying mechanism spring has too little tension   | Move spring hook to next tighter hole   |
| The tape end does not stay in application position in front of the applying roller | The tape is incorrectly threaded   | Re thread 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 centerline of applying roller  |
|  | The one-way tension roller is defective  | Replace the one-way tension roller  |
| 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  |

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## Spare Parts/Service Information

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### Recommended Spare Parts

Listed are a set of spare parts that will periodically require replacement due to normal wear. These parts should be ordered to keep the taping heads in production:

#### AccuGlide™ HST 2 Inch Upper Taping Head

| Qty. | Part Number    | Description             |
|------|----------------|-------------------------|
| 4    | 78-8076-4500-3 | Stud – Mounting         |
| 2    | 78-8137-3563-2 | Spring - Midpoint Upper |
| 1    | 78-8137-3564-0 | Spring - Main Upper     |
| 1    | 78-8017-9173-8 | Blade – 65mm/2.56 Inch  |
| 2    | 78-8052-6602-6 | Spring – Cutter         |
| 1    | 78-8076-4726-4 | Tool – Tape Threading   |

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#### AccuGlide™ HST 2 Inch Lower Taping Head

| Qty. | Part Number    | Description             |
|------|----------------|-------------------------|
| 1    | 78-8017-9173-8 | Blade – 65mm/2.56 Inch  |
| 2    | 78-8052-6602-6 | Spring – Cutter         |
| 4    | 78-8076-4500-3 | Stud – Mounting         |
| 2    | 78-8137-3565-7 | Spring - Midpoint Lower |
| 1    | 78-8137-3566-5 | Spring - Main Lower     |
| 1    | 78-8076-4726-4 | Tool – Tape Threading   |

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In addition to the above set of spare parts supplied with the taping head, it is suggested that the following spare parts be maintained which will require replacement under normal wear of the taping head.

| Qty. | Part Number    | Description       |
|------|----------------|-------------------|
| 1    | 78-8137-3551-7 | Roller – Applying |
| 1    | 78-8137-3555-8 | Roller – Buffing  |
| 1    | 78-8113-7030-9 | Spring – Torsion  |

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### Replacement Parts and Service

Refer to the first page of this instruction manual “**Replacement Parts and Service Information**”.

**Replacement Parts Illustrations and Parts Lists**  
**AccuGlide™ HST 2 Inch Upper Taping Head, Type 41000**  
**AccuGlide™ HST 2 Inch Lower Taping Head, Type 41000**

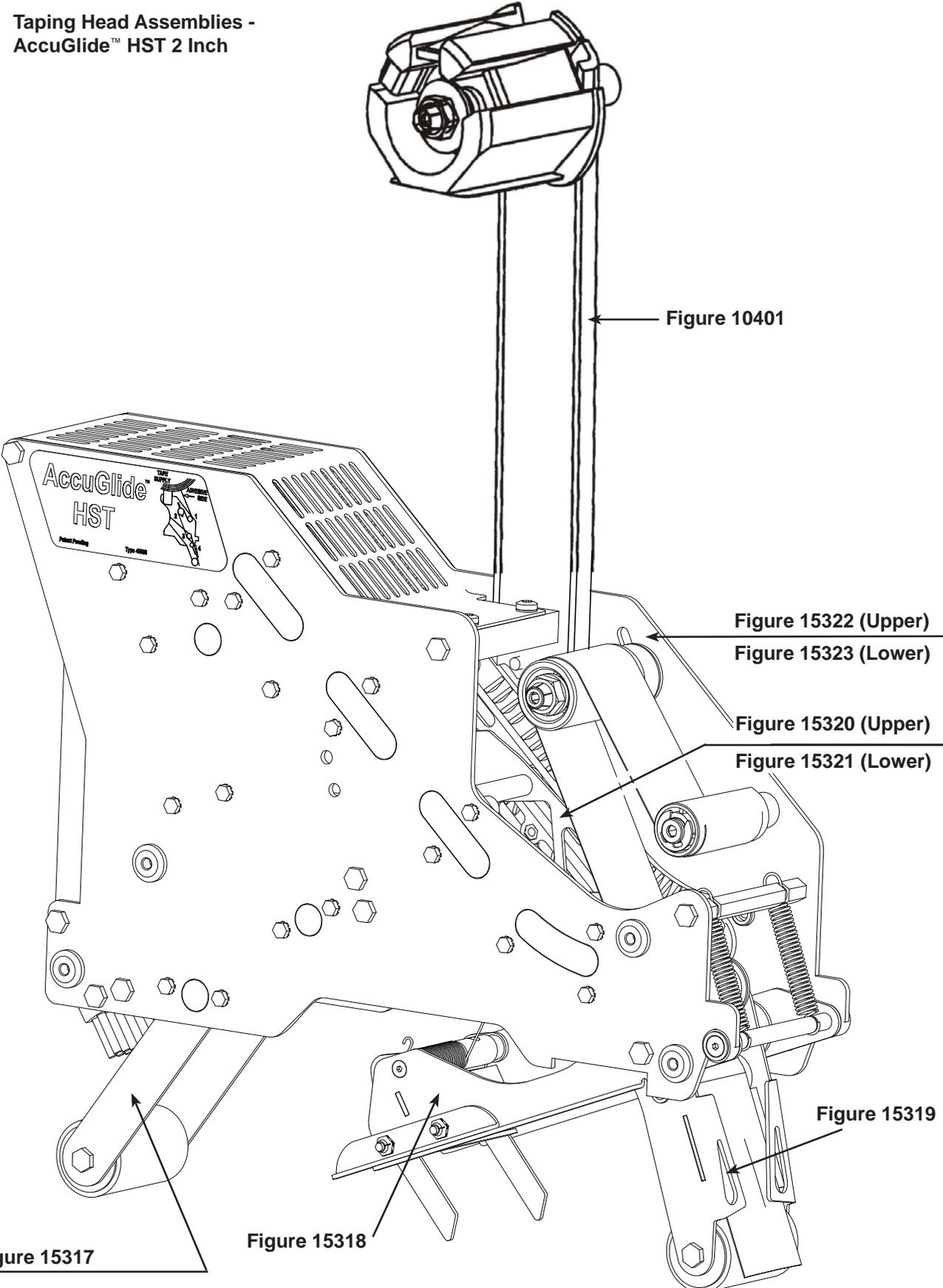
1. Refer to the Taping Head Assemblies Figure to find all the parts illustrations identified by figure numbers.
2. Refer to the figure or figures to determine the individual parts required and the parts reference number.
3. The replacement parts list, that follows each illustration, includes the part 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 the first page of this instruction manual "**Replacement Parts and Service Information**" for replacement parts ordering information.

**Important** – Not all the parts listed are normally stocked items. Some parts or assemblies shown are available only on a special order basis. Contact 3M/Tape Dispenser Parts to confirm item availability.

**Taping Head Assemblies -  
AccuGlide™ HST 2 Inch**



**Figure 15317**

**Figure 15318**

**Figure 10401**

**Figure 15322 (Upper)**

**Figure 15323 (Lower)**

**Figure 15320 (Upper)**

**Figure 15321 (Lower)**

**Figure 15319**

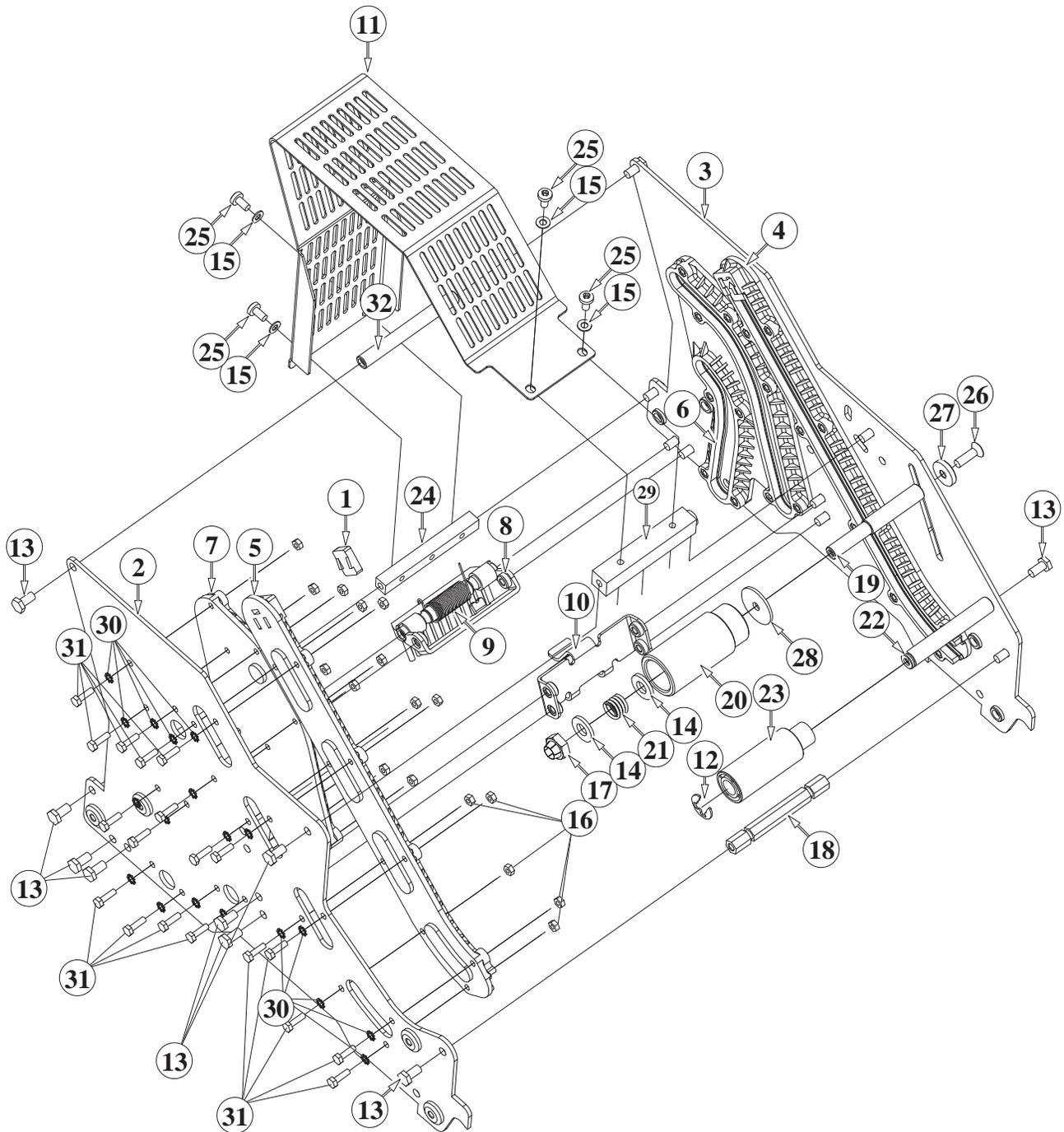


Figure 15322 – Upper Taping Head Framework Assembly

**Figure 15322 – HST 2" Upper Taping Head Framework Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>                         |
|-----------------|--------------------|--|
| 15322-1         | 78-8137-3536-8     | Bumper - Guide 17mm                        |
| 15322-2         | 78-8137-3537-6     | Frame - Front Plate Upper Assembly         |
| 15322-3         | 78-8137-3538-4     | Frame - Tape Mount Plate Upper Assembly    |
| 15322-4         | 78-8137-3539-2     | Guide - Apply 17mm #1                      |
| 15322-5         | 78-8137-3540-0     | Guide - Apply 17mm #2                      |
| 15322-6         | 78-8137-3541-8     | Guide - Buff 17mm #1                       |
| 15322-7         | 78-8137-3542-6     | Guide - Buff 17mm #2                       |
| 15322-8         | 78-8137-3543-4     | Stop - Rotational Brush Assembly           |
| 15322-9         | 78-8137-3562-4     | Brush - Assembly                           |
| 15322-10        | 78-8137-3544-2     | Bracket - Leg Position Assembly 2 Inch     |
| 15322-11        | 78-8137-3545-9     | Guard - Head 2 Inch                        |
| 15322-12        | 26-1000-1613-3     | Ring - Retaining, Tru-Arc # 1-420-0120-100 |
| 15322-13        | 26-1003-5829-5     | Screw - Hex Hd, M6 X 12                    |
| 15322-14        | 26-1004-5510-9     | Washer - Plain, M10                        |
| 15322-15        | 78-8005-5741-1     | Washer - Flat, M5                          |
| 15322-16        | 78-8010-7416-8     | Nut - Hex Jam, M4                          |
| 15322-17        | 78-8017-9077-1     | Nut - Self Locking, M10 x 1                |
| 15322-18        | 78-8052-6560-6     | Spacer - Front                             |
| 15322-19        | 78-8052-6564-8     | Shaft - Tension Roller                     |
| 15322-20        | 78-8052-6565-5     | Roller - Top Tension (CCW)                 |
| 15322-21        | 78-8052-6567-1     | Spring - Compression                       |
| 15322-22        | 78-8052-6568-9     | Shaft - Wrap Roller                        |
| 15322-23        | 78-8052-6569-7     | Roller - Wrap                              |
| 15322-24        | 78-8054-8764-8     | Spacer - 10 x 10 x 90 mm                   |
| 15322-25        | 78-8060-8087-1     | Screw - M5 x 10                            |
| 15322-26        | 78-8060-8179-6     | Screw - Flat Hd Hex, M6 x 20               |
| 15322-27        | 78-8076-5477-3     | Washer - Special 6.5 x 20 x 4              |
| 15322-28        | 78-8100-1009-6     | Washer - Special                           |
| 15322-29        | 78-8100-1046-8     | Spacer - Bracket                           |
| 15322-30        | 78-8137-0600-5     | Washer - Star                              |
| 15322-31        | 83-0002-7336-3     | Screw - Hex Hd, M4 x 14                    |
| 15322-32        | 78-8137-3298-5     | Shaft - 90mm                               |

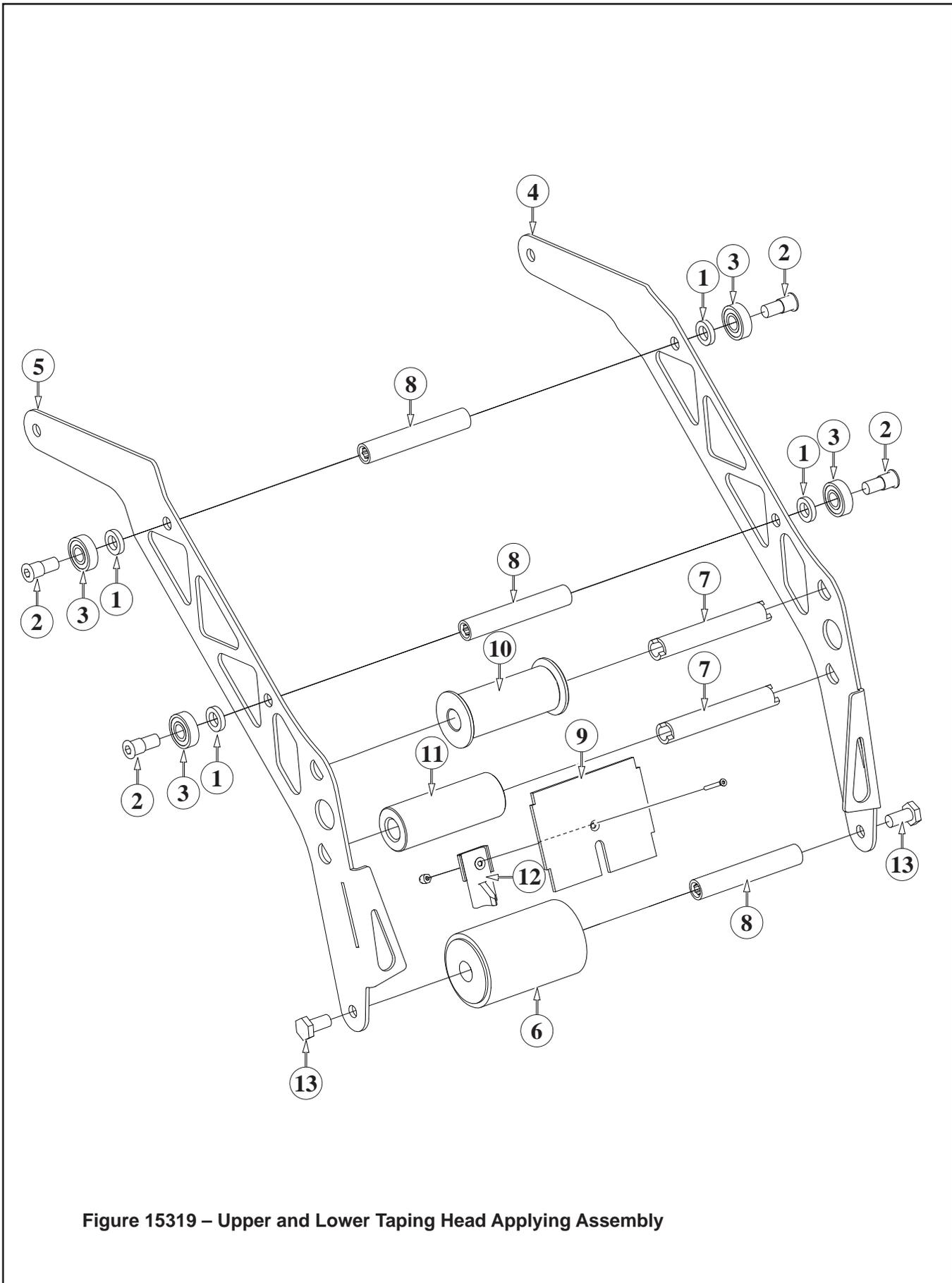


Figure 15319 – Upper and Lower Taping Head Applying Assembly

**Figure 15319 – HST 2" Upper and Lower Taping Head Applying Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>                |
|-----------------|--------------------|-----------------------------------|
| 15319-1         | 78-8137-3546-7     | Washer- Bearing 17mm              |
| 15319-2         | 78-8137-3547-5     | Pin Short - Bearing 17mm          |
| 15319-3         | 78-8137-3548-3     | Bearing - 17mm                    |
| 15319-4         | 78-8137-3549-1     | Applying Arm - Left 2 Inch        |
| 15319-5         | 78-8137-3550-9     | Applying Arm - Right 2 Inch       |
| 15319-6         | 78-8137-3551-7     | Roller - Applying Assembly 2 Inch |
| 15319-7         | 78-8137-3552-5     | Shaft - D-Roller                  |
| 15319-8         | 78-8137-3553-3     | Shaft - Roller                    |
| 15319-9         | 78-8070-1221-2     | Plate - Tape                      |
| 15319-10        | 78-8137-3567-3     | Roller - Knurled                  |
| 15319-11        | 78-8070-1266-7     | Roller - Wrap                     |
| 15319-12        | 78-8079-5012-2     | Tape Support Kit Assembly         |
| 15319-13        | 26-1003-5829-5     | Screw - Hex Hd, M6 X 12           |

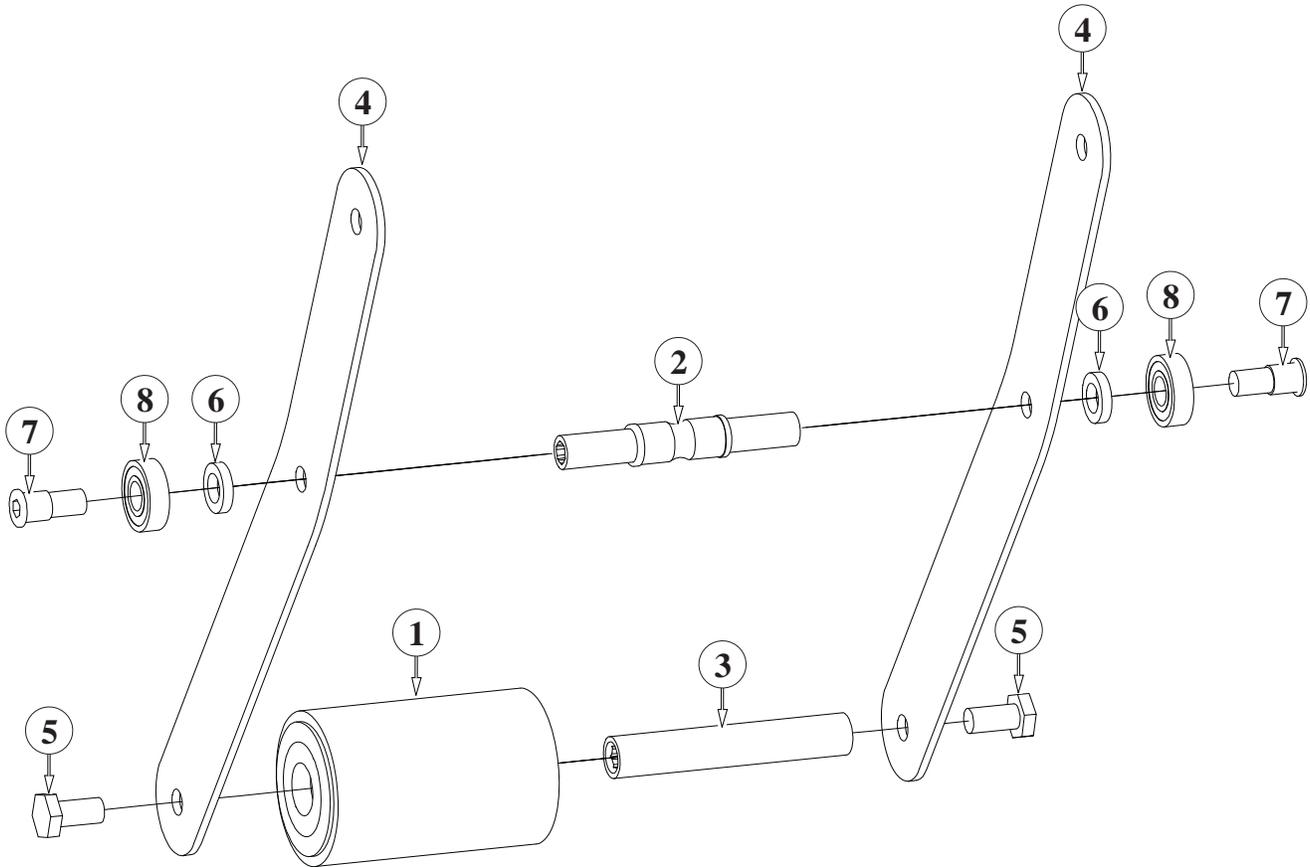


Figure 15317 – Upper and Lower Taping Head Buffing Assembly

**Figure 15317 – HST 2" Upper and Lower Taping Head Buffing Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>              |
|-----------------|--------------------|---------------------------------|
| 15317-1         | 78-8137-3555-8     | Roller - Buffing Align Assembly |
| 15317-2         | 78-8137-3556-6     | Shaft - Buff Link               |
| 15317-3         | 78-8137-3553-3     | Shaft - Roller                  |
| 15317-4         | 78-8137-3558-2     | Buffing Arm                     |
| 15317-5         | 26-1003-5829-5     | Screw - Hex Hd, M6 X 12         |
| 15317-6         | 78-8137-3546-7     | Washer - Bearing 17mm           |
| 15317-7         | 78-8137-3547-5     | Pin Short - Bearing 17mm        |
| 15317-8         | 78-8137-3548-3     | Bearing - 17mm                  |

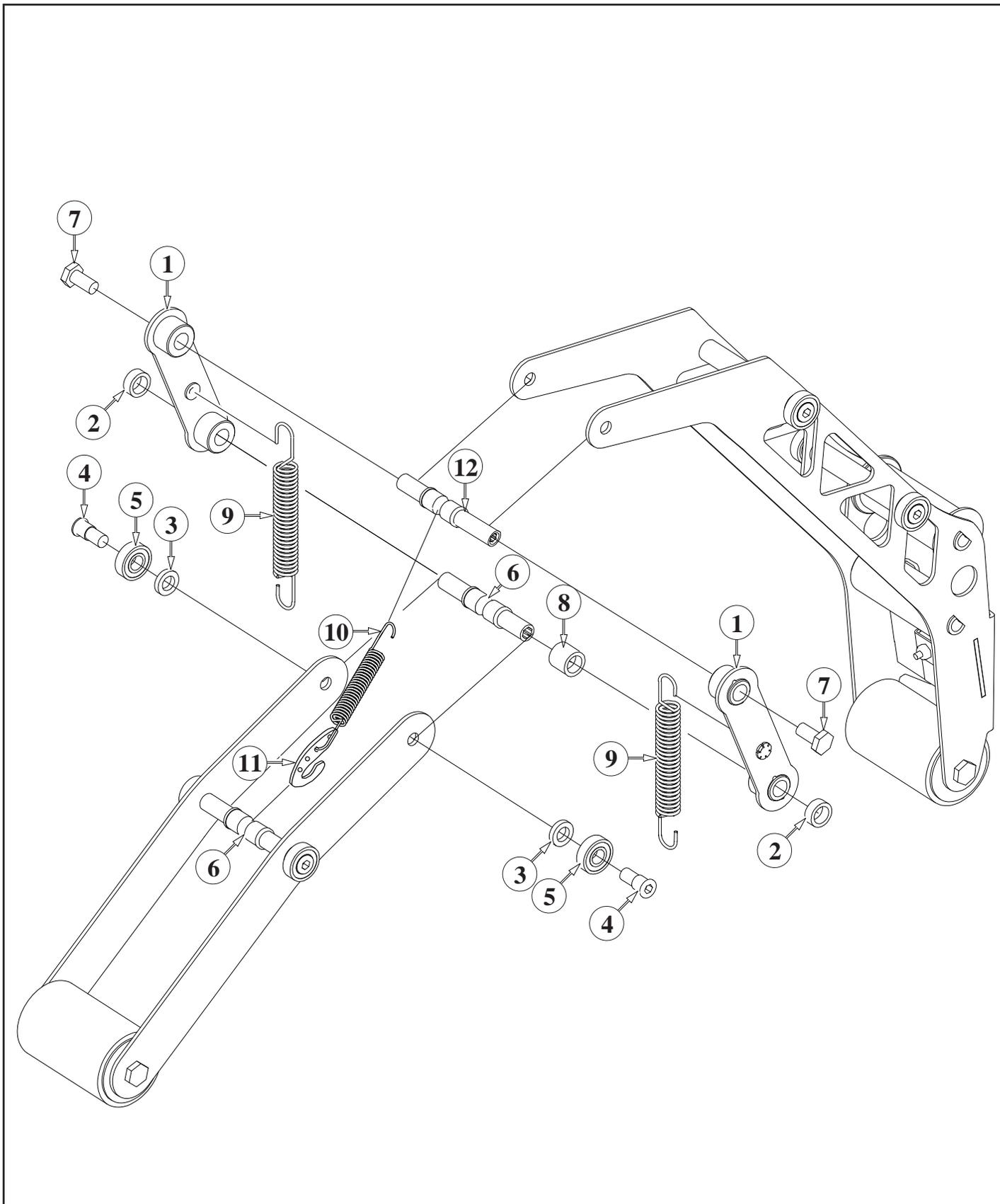


Figure 15320 – Upper Taping Head Linkage Assembly

**Figure 15320– 2" HST Upper Taping Head Linkage Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>          |
|-----------------|--------------------|-----------------------------|
| 15320-1         | 78-8137-3559-0     | Link – Arm Bushing Assembly |
| 15320-2         | 78-8137-3560-8     | Spacer - Link Plastic       |
| 15320-3         | 78-8137-3546-7     | Washer - Bearing 17mm       |
| 15320-4         | 78-8137-3547-5     | Pin Short - Bearing 17mm    |
| 15320-5         | 78-8137-3548-3     | Bearing - 17mm              |
| 15320-6         | 78-8137-3556-6     | Shaft - Buff Link           |
| 15320-7         | 26-1003-5829-5     | Screw - Hex Hd, M6 X 12     |
| 15320-8         | 78-8137-3554-1     | Stop - Tube                 |
| 15320-9         | 78-8137-3563-2     | Spring - Midpoint Upper     |
| 15320-10        | 78-8137-3564-0     | Spring - Main Upper         |
| 15320-11        | 78-8070-1244-4     | Holder – Spring             |
| 15320-12        | 78-8137-3571-5     | Shaft - Apply Link          |

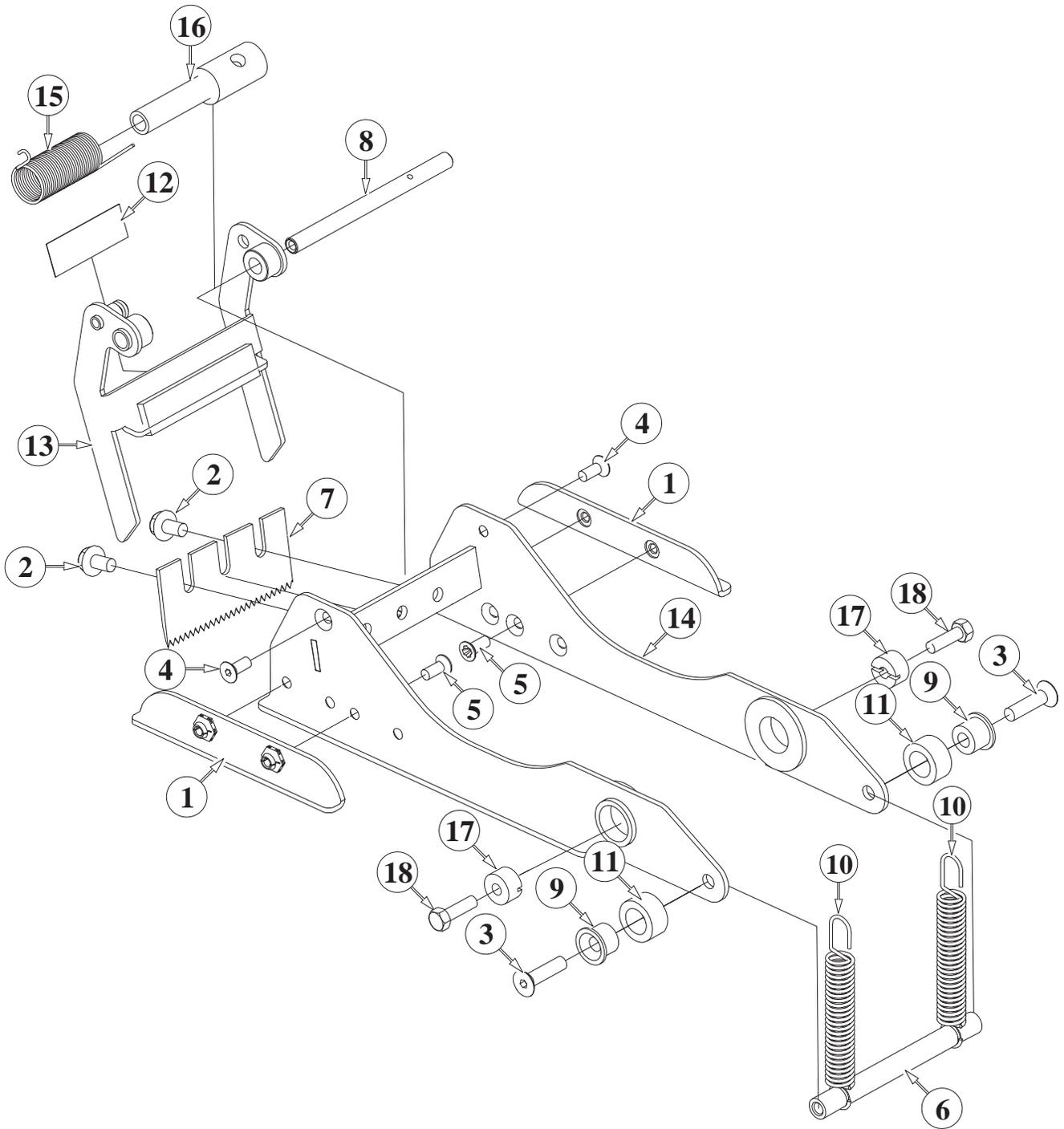


Figure 15318 - Upper and Lower Taping Heads Cut-Off Assembly

**Figure 15318 – 2" HST Upper and Lower Taping Heads Cut-Off Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>                              |
|-----------------|--------------------|---|
| 15318-1         | 78-8137-3561-6     | Slide - Extension Assembly                      |
| 15318-2         | 26-1003-8596-7     | Screw - Hed Hd M5 x 8 w/ Ext. Tooth Lockwasher  |
| 15318-3         | 26-1005-4757-4     | Screw – Flat Hd, Soc Dr, M5 x 20                |
| 15318-4         | 26-1005-4758-2     | Screw - Flat Hd, Soc Dr, M4 x 10                |
| 15318-5         | 26-1008-6574-5     | Screw - Flat Hd, Phillips Dr, M4 x 10           |
| 15318-6         | 78-8017-9135-7     | Shaft - Spacer                                  |
| 15318-7         | 78-8017-9173-8     | Blade - 2.56 Inches / 65mm                      |
| 15318-8         | 78-8052-6597-8     | Shaft - Blade Guard                             |
| 15318-9         | 78-8052-6600-0     | Spacer  |
| 15318-10        | 78-8052-6602-6     | Spring - Cutter                                 |
| 15318-11        | 78-8070-1269-1     | Bumper  |
| 15318-12        | 78-8070-1335-0     | Label - Warning, English                        |
| 15318-13        | 78-8070-1371-5     | Blade Guard Assembly - W/English Language Label |
| 15318-14        | 78-8110-2789-1     | Frame - Cut-Off Weldment                        |
| 15318-15        | 78-8113-7030-9     | Spring - Torsion                                |
| 15318-16        | 78-8113-7031-7     | Bushing - 58.5mm Long                           |
| 15318-17        | 78-8017-9132-4     | Pivot - Cutter Lever                            |
| 15318-18        | 26-1003-5828-7     | Screw - Spec, Hex Hd, M6 x 10                   |

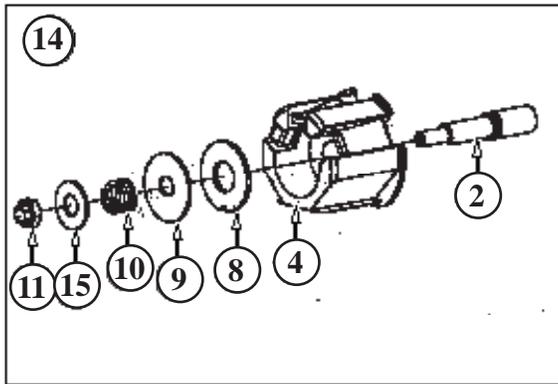
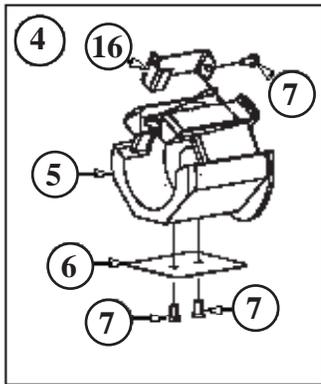
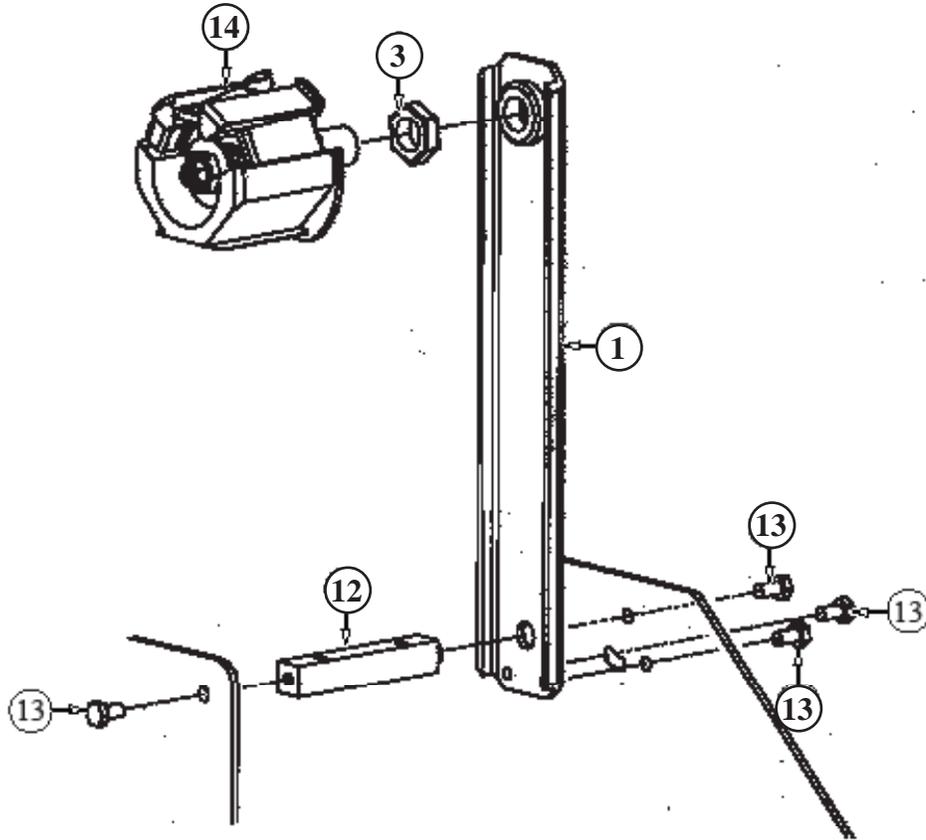


Figure 10401 – Upper and Lower Tape Heads Assembly

**Figure 10401 – HST 2" Upper and Lower Tape Heads Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>                   |
|-----------------|--------------------|--------------------------------------|
| 10401-1         | 78-8070-1395-4     | Bracket – Bushing Assembly           |
| 10401-2         | 78-8076-4519-3     | Shaft – Tape Drum, 50 mm             |
| 10401-3         | 78-8017-9169-6     | Nut – M18 x 1                        |
| 10401-4         | 78-8098-8827-0     | Tape Drum Sub Assembly – 2 Inch Wide |
| 10401-5         | 78-8098-8749-6     | Tape Drum                            |
| 10401-6         | 78-8098-8817-1     | Leaf Spring                          |
| 10401-7         | 26-1002-5753-9     | Screw – Self Tapping                 |
| 10401-8         | 78-8060-8172-1     | Washer – Friction                    |
| 10401-9         | 78-8052-6271-0     | Washer – Tape Drum                   |
| 10401-10        | 78-8100-1048-4     | Spring – Core Holder                 |
| 10401-11        | 78-8017-9077-1     | Nut – Self Locking, M10 x 1          |
| 10401-12        | 78-8100-1046-8     | Spacer – Bracket                     |
| 10401-13        | 26-1003-5829-5     | Screw – Hex Hd, M6 x 12              |
| 10401-14        | 78-8098-8814-8     | Tape Drum Assembly – 2 Inch Head     |
| 10401-15        | 26-1004-5510-9     | Washer – Plain, M10                  |
| 10401-16        | 78-8098-8816-3     | Latch – Tape Drum                    |

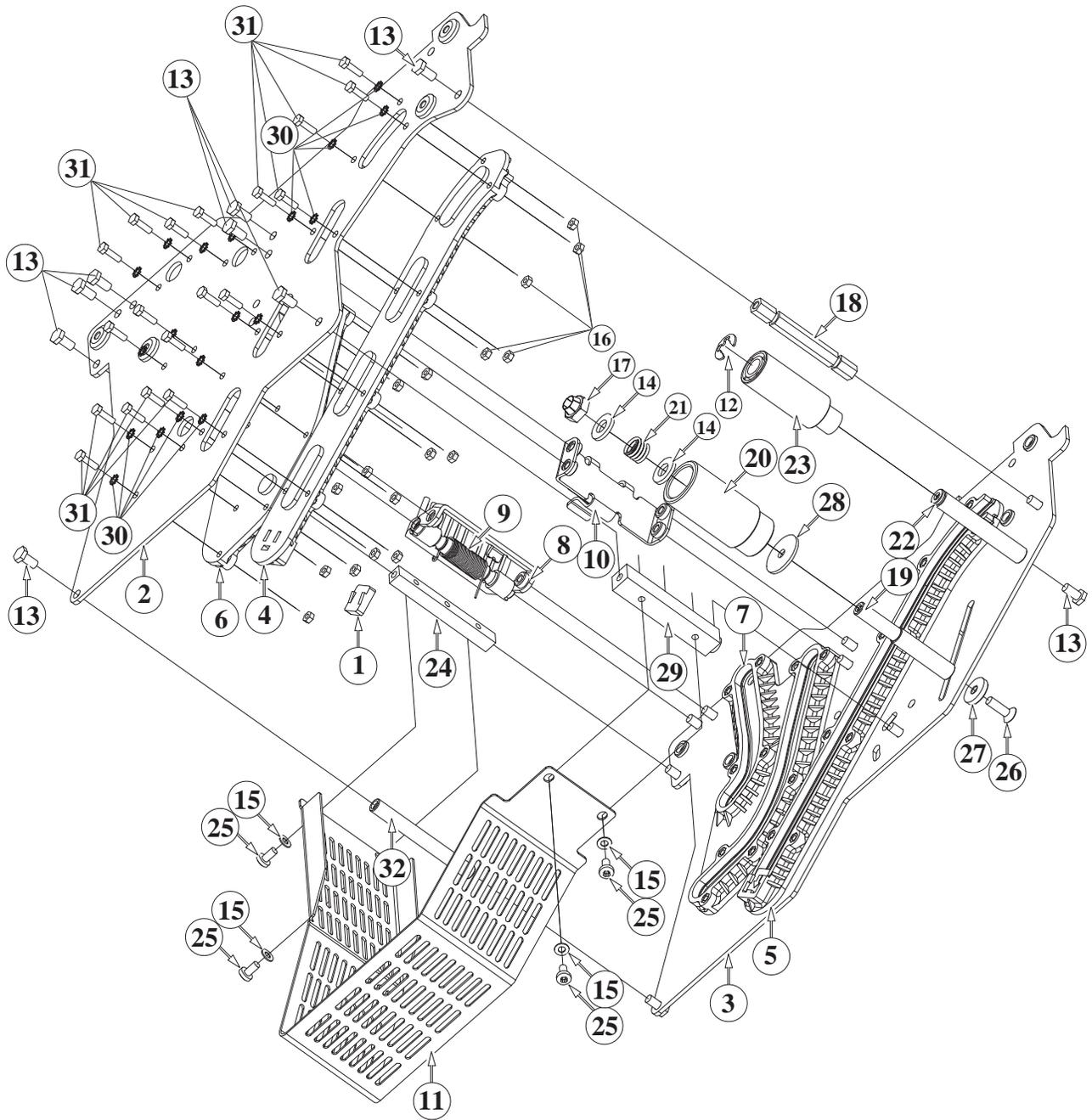


Figure 15323 – Lower Taping Head Framework Assembly

**Figure 15323 – HST 2" Lower Taping Head Framework Assembly**

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>                         |
|-----------------|--------------------|--|
| 15323-1         | 78-8137-3536-8     | Bumper - Guide 17mm                        |
| 15323-2         | 78-8137-3583-0     | Frame - Front Plate Lower Assembly         |
| 15323-3         | 78-8137-3584-8     | Frame - Tape Mount Plate Lower Assembly    |
| 15323-4         | 78-8137-3539-2     | Guide - Apply 17mm #1                      |
| 15323-5         | 78-8137-3540-0     | Guide - Apply 17mm #2                      |
| 15323-6         | 78-8137-3541-8     | Guide - Buff 17mm #1                       |
| 15323-7         | 78-8137-3542-6     | Guide - Buff 17mm #2                       |
| 15323-8         | 78-8137-3543-4     | Stop - Rotational Brush Assembly           |
| 15323-9         | 78-8137-3562-4     | Brush - Assembly                           |
| 15323-10        | 78-8137-3544-2     | Bracket - Leg Position Assembly 2 Inch     |
| 15323-11        | 78-8137-3545-9     | Guard - Head 2 Inch                        |
| 15323-12        | 26-1000-1613-3     | Ring - Retaining, Tru-Arc # 1-420-0120-100 |
| 15323-13        | 26-1003-5829-5     | Screw - Hex Hd, M6 X 12                    |
| 15323-14        | 26-1004-5510-9     | Washer - Plain, M10                        |
| 15323-15        | 78-8005-5741-1     | Washer - Flat, M5                          |
| 15323-16        | 78-8010-7416-8     | Nut - Hex Jam, M4                          |
| 15323-17        | 78-8017-9077-1     | Nut - Self Locking, M10 x 1                |
| 15323-18        | 78-8052-6560-6     | Spacer - Front                             |
| 15323-19        | 78-8052-6564-8     | Shaft - Tension Roller                     |
| 15323-20        | 78-8052-6606-7     | Roller - Lower Tension (CW)                |
| 15323-21        | 78-8052-6567-1     | Spring - Compression                       |
| 15323-22        | 78-8052-6568-9     | Shaft - Wrap Roller                        |
| 15323-23        | 78-8052-6569-7     | Roller - Wrap                              |
| 15323-24        | 78-8054-8764-8     | Spacer - 10 x 10 x 90 mm                   |
| 15323-25        | 78-8060-8087-1     | Screw - M5 x 10                            |
| 15323-26        | 78-8060-8179-6     | Screw - Flat Hd Hex, M6 x 20               |
| 15323-27        | 78-8076-5477-3     | Washer - Special 6.5 x 20 x 4              |
| 15323-28        | 78-8100-1009-6     | Washer - Special                           |
| 15323-29        | 78-8100-1046-8     | Spacer - Bracket                           |
| 15323-30        | 78-8137-0600-5     | Washer - Star                              |
| 15323-31        | 83-0002-7336-3     | Screw - Hex Hd, M4 x 14                    |
| 15323-32        | 78-8137-3298-5     | Shaft - 90mm                               |

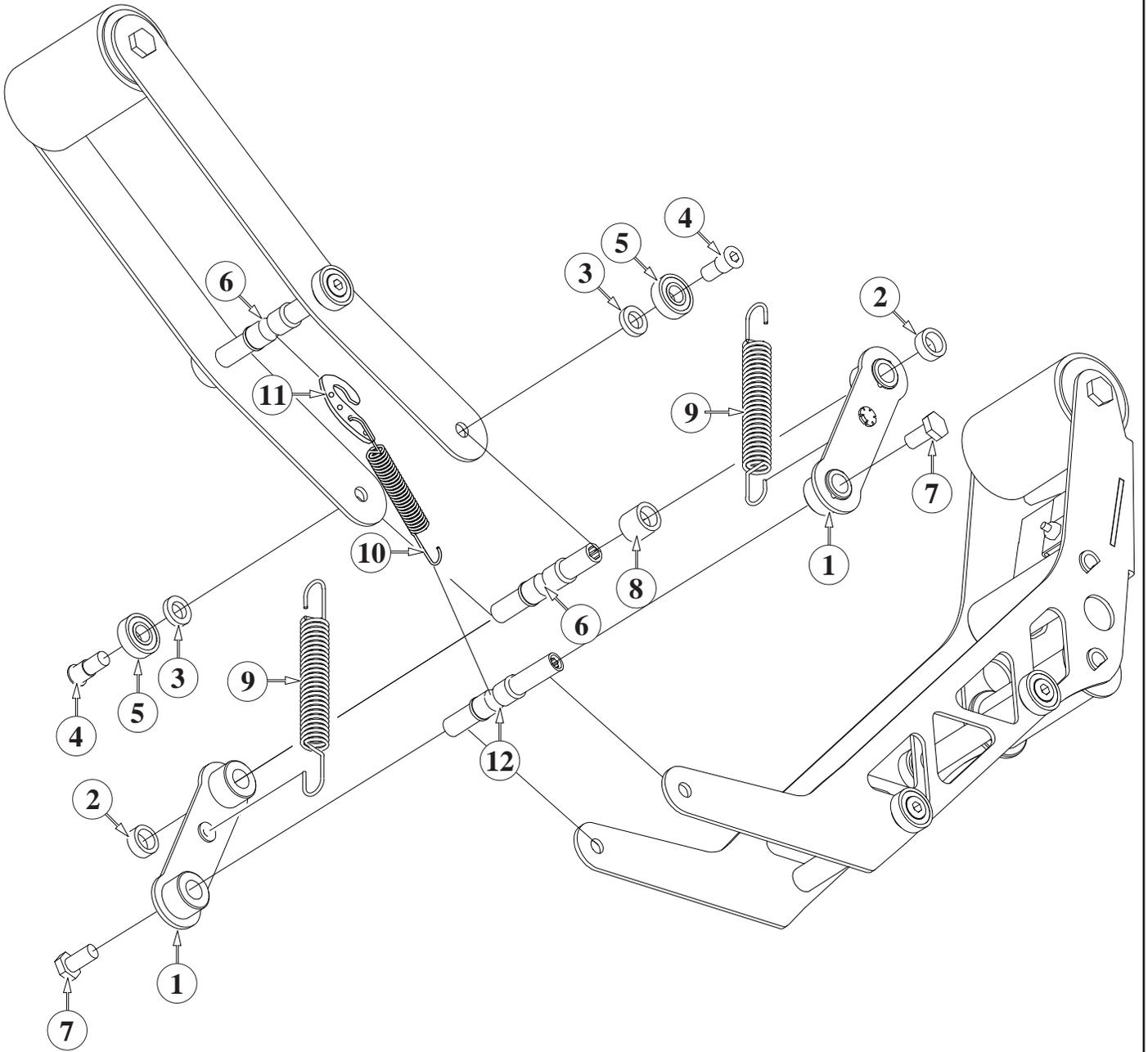


Figure 15321 – Lower Taping Head Linkage Assembly

## Figure 15321 – 2" HST Lower Taping Head Linkage Assembly

| <b>Ref. No.</b> | <b>3M Part No.</b> | <b>Description</b>          |
|-----------------|--------------------|-----------------------------|
| 15321-1         | 78-8137-3559-0     | Link – Arm Bushing Assembly |
| 15321-2         | 78-8137-3560-8     | Spacer - Link Plastic       |
| 15321-3         | 78-8137-3546-7     | Washer - Bearing 17mm       |
| 15321-4         | 78-8137-3547-5     | Pin Short - Bearing 17mm    |
| 15321-5         | 78-8137-3548-3     | Bearing - 17mm              |
| 15321-6         | 78-8137-3556-6     | Shaft - Buff Link           |
| 15321-7         | 26-1003-5829-5     | Screw - Hex Hd, M6 X 12     |
| 15321-8         | 78-8137-3554-1     | Stop - Tube                 |
| 15321-9         | 78-8137-3565-7     | Spring - Midpoint Lower     |
| 15321-10        | 78-8137-3566-5     | Spring - Main Lower         |
| 15321-11        | 78-8070-1244-4     | Holder – Spring             |
| 15321-12        | 78-8137-3571-5     | Shaft - Apply Link          |

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