



## Instructions and Parts List

# 3M-Matic™

## Dual S-857 II "L" Clip Applicator Assembly

Type 19600



### Important Safety Information

Read "Important Safeguards  
page 2 and also operating  
"Warnings", page 6  
BEFORE INSTALLING C  
OPERATING THIS  
EQUIPMENT.

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

For reference, record machine serial number here.

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# Instruction Manual

Dual S-857 II "L" Clip Applicator Assembly,  
Type 19600

This instruction manual is divided into two sections as follows:

**Section I** Includes all information related to installation, operation and parts for the Dual S-857 II "L" Clip Applicator Assembly.

**Section II** Includes specific information regarding the S-857 "L" Clip Applicator.

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## **Section II – S-857 "L" Clip Applicator**

(See Section II for Table of Contents)

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

3M warrants that its **3M-Matic™ Dual S-857 II "L" Clip Applicator, Type 19600** will be free from defects for ninety (90) days after delivery. If any part is proved to be defective within the warranty period, then the exclusive remedy and 3M's and seller's sole obligation shall be, at 3M's option, to repair or replace the part, provided the defective part is returned immediately to 3M's factory or an authorized service station designated by 3M. A part will be presumed to have become defective after the warranty period unless the part is received or 3M is notified of the problem no later than five (5) calendar days after the warranty period. If 3M is unable to repair or replace the part within a reasonable time, then 3M, at its option, will replace the equipment or refund the purchase price. 3M shall have no obligation to provide or pay for the labor required to install the repaired or replacement part. 3M shall have no obligation to repair or replace (1) those parts failing due to operator misuse, carelessness, or due to any accidental cause other than equipment failure, or (2) parts failing due to non-lubrication, inadequate cleaning, improper operating environment, improper utilities or operator error.

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

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

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## **Dual S-857 II "L" Clip Applicator Assembly Contents**

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- (1) Dual S-857 II "L" Clip Applicator Assembly
- (1) Instruction and Parts Manual

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## Intended Use

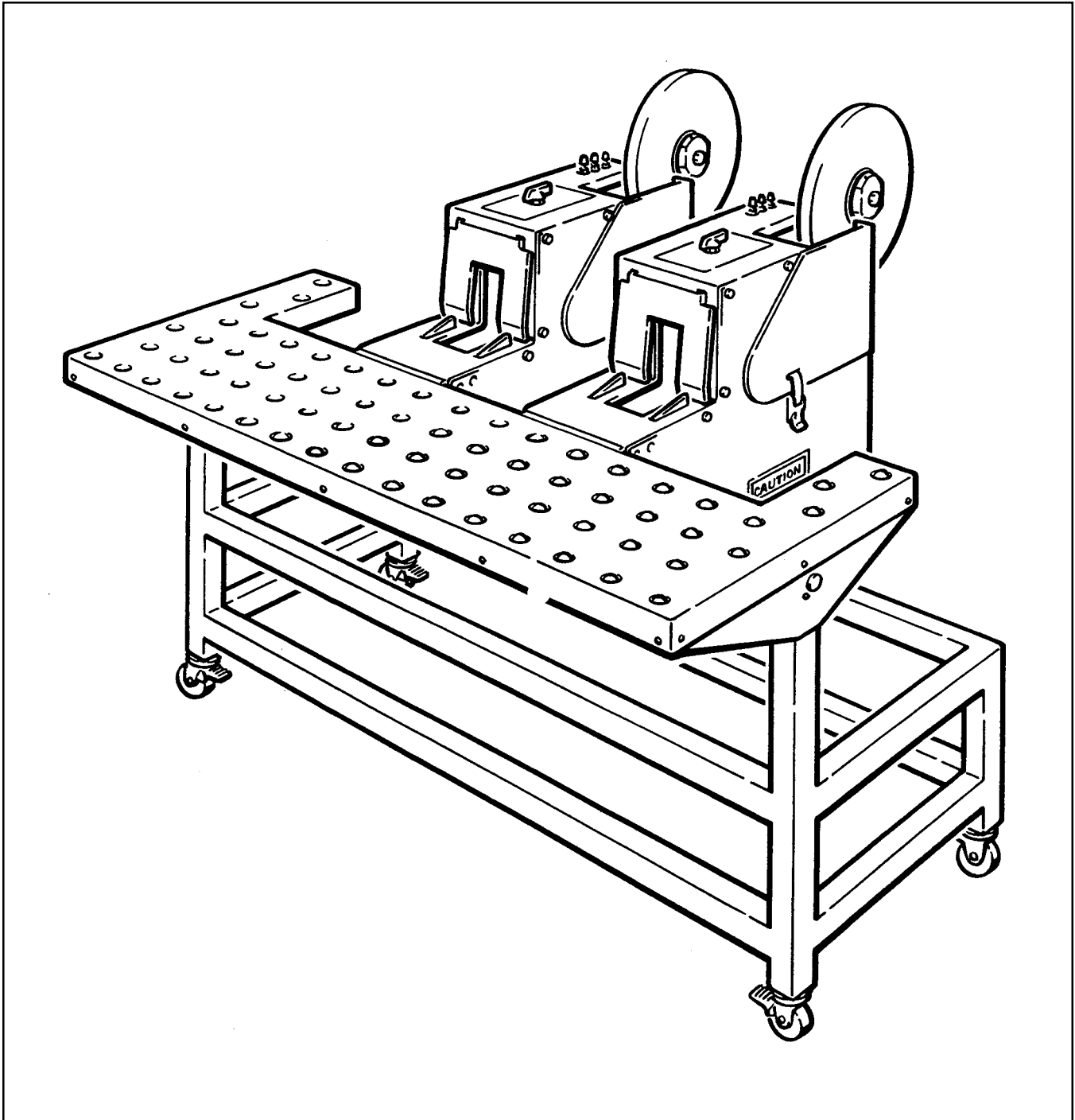
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The intended use of the **Dual S-857 II "L" Clip Applicator Assembly** is to simultaneously apply two "L" clip of **Scotch™** brand filament tape to the lower corner of a box.

Since each taping head is actuated independently, single "L" clips can also be applied. The taping heads can easily be adjusted to apply two "L" clips

at 12 inch [305 mm] minimum to 31 inch [785 mm] maximum centers. The steel ball bearing work surface allows easy positioning of boxes regardless of box size or weight.

The **Dual S-857 II "L" Clip Applicator Assembly** has been designed and tested for use with **Scotch™** brand filament tape.



**Dual S-857 II "L" Clip Applicator Assembly**

## Important Safeguards



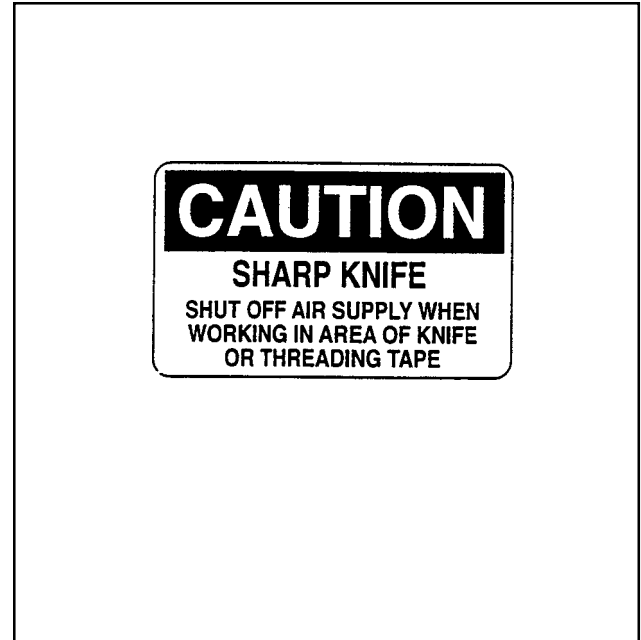
This safety alert symbol identifies important safety messages in this manual. **READ AND UNDERSTAND THEM BEFORE INSTALLING OR OPERATING THIS EQUIPMENT.**

**Important** – In the event the following safety labels are damaged or destroyed, **they must be replaced to ensure operator safety.**

See Section II, Parts Drawing/Lists, pages 15-31 for label part numbers.

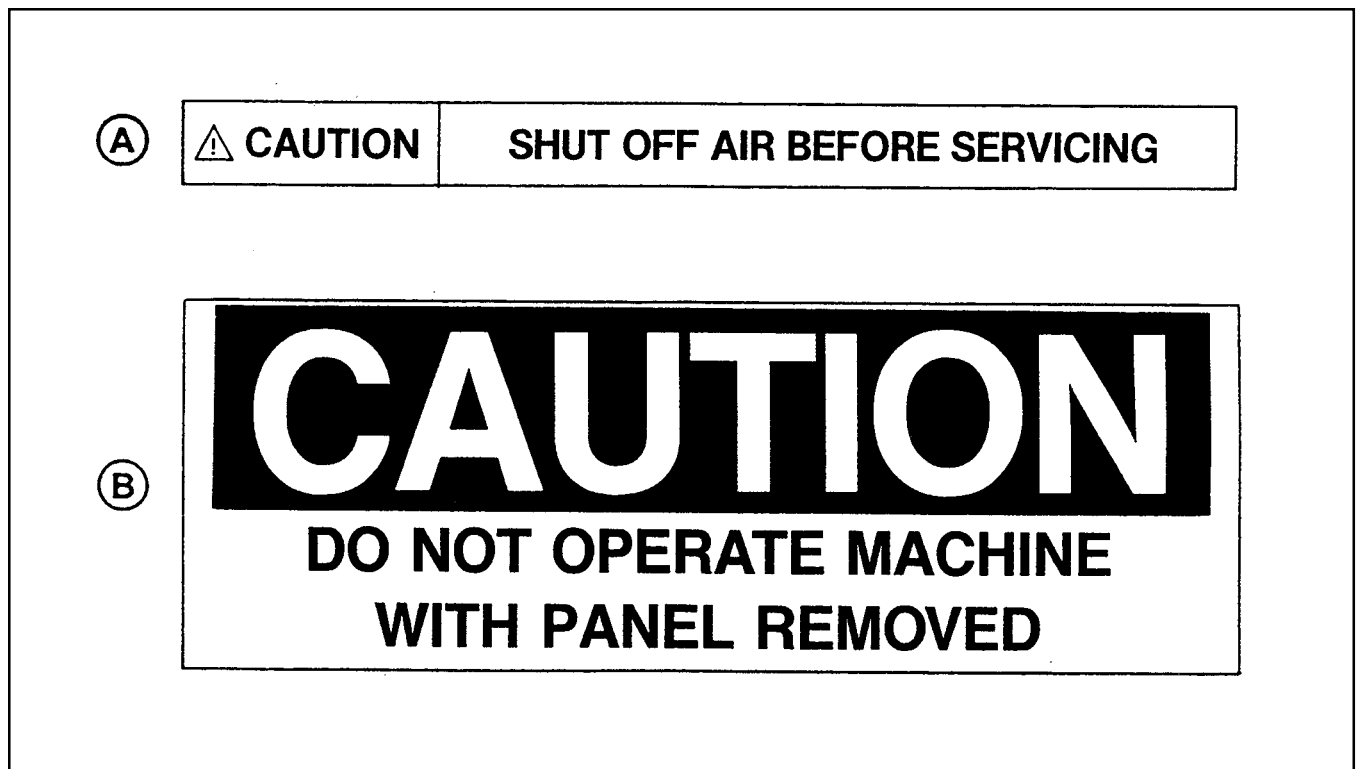
The "**Warning – Sharp Knife**" label, shown in **Figure 1-1**, is attached to the blade guard on the tape cut-off assembly inside each S-857 applicator. When the access cover is open, this label reminds operator and service personnel to shut off air supply and use caution when working near tape cut-off knife.

The "**Caution – Shut Off Air**" label, shown in **Figure 1-2A**, is attached to the front, top edge of each S-857 applicator. The label reminds operator and service personnel to shut off air supply before servicing machine.



**Figure 1-1 – Knife Warning Label**

The "**Caution – Do Not Operate Machine**" label, shown in **Figure 1-2B**, is attached to the right side panel of each S-857 applicator. This label reminds operator that this panel must be in place when operating machine.



**Figure 1-2 – Caution Labels**

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## Specifications

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1. **Tape:**

“Scotch” brand filament tape.

2. **Tape Width:**

3/8 inch [9 mm], 1/2 inch [12 mm] and 5/8 inch [15 mm].

**Note** – For wider tape widths up to 1-1/2 inches [38.1 mm], please contact your local 3M sales representative.

3. **Tape Roll Diameter:**

Up to 15 inches [115 mm] maximum on a 3 inch [76.2 mm] diameter core.

4. **Applied Tape Length:**

4-1/2 inches [115 mm] (nominal). Tape legs are 2-1/4 inches  $\pm$ 1/8 inch [55 mm  $\pm$ 3.2 mm].

5. **Box Size Capacity** (Applying two "L" Clips):

Height – 2-1/4 inches [60 mm] minimum to unlimited maximum.

Width – 13 inches [330 mm] minimum to unlimited maximum  
(Single clip application requires 3-1/4 inch [85 mm] minimum box width.)

Depth – 2-1/4 inches [60 mm] minimum to unlimited maximum

**Note** – Operator capability will determine maximum height, width and depth. For other size requirements, please contact your 3M sales representative or call 1-800-PAC-LINE (1-800-722-5463).

6. **Cycle Time:**

1.2 seconds

7. **Compressed Air Requirements:**

65 PSIG [4.2 bar gauge pressure]

4.3 SCFM [120 liter/minute @ 21C, 1.0 bar] at 50 cycles/minute

8. **Operating Conditions:**

Use in dry, relatively clean environments at 40°F to 120°F [5°C to 49°C] with clean, dry boxes.

**Note** – Machine should not be washed down or subjected to conditions causing moisture condensation on components.

9. **Weight:**

350 pounds [160 kg] packaged

275 pounds [125 kg] unpackaged

(Continued)

# Specifications (Continued)

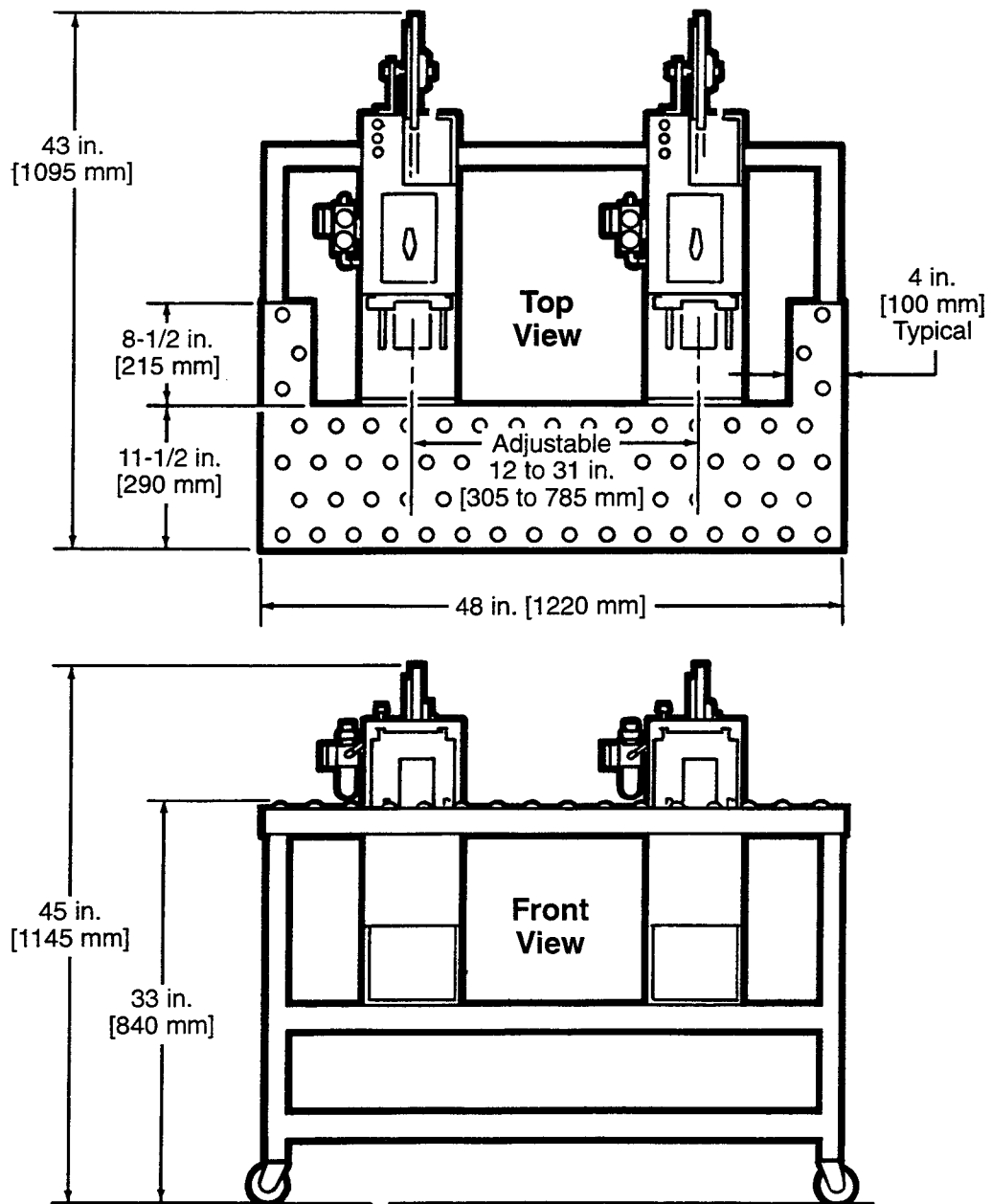


Figure 2-1 – Dimensional Drawing

# Installation and Set-Up

## Receiving And Handling

Examine the "L" Clip Applicator Assembly for damage that may have occurred during transit. If damage is evident, file a damage claim immediately with the transportation company and also notify your 3M representative.

## Machine Set-Up

1. Level machine by shimming under casters if necessary. Machine must be level or boxes left on machine will roll off.
2. Fill lubricator bowls on both applicators with U.S.P. heavy mineral oil or SAE #5 or #10 non-detergent oil. Remove oil filler plug, fill bowl to FULL line and replace filler plug. See Figure 3-1.

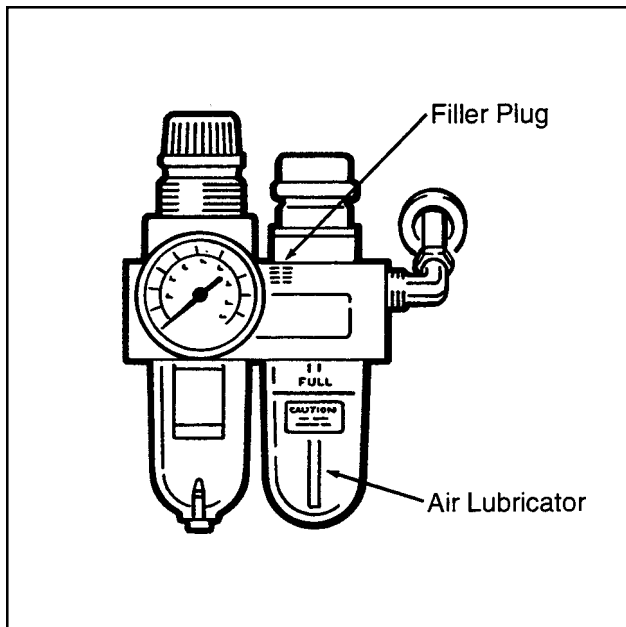


Figure 3-1 – Air Lubricator

3. Turn air valve on both applicators "Off" and connect plant air supply to male quick disconnect on the lower/rear frame rail of the applicator frame. See Figure 3-2.

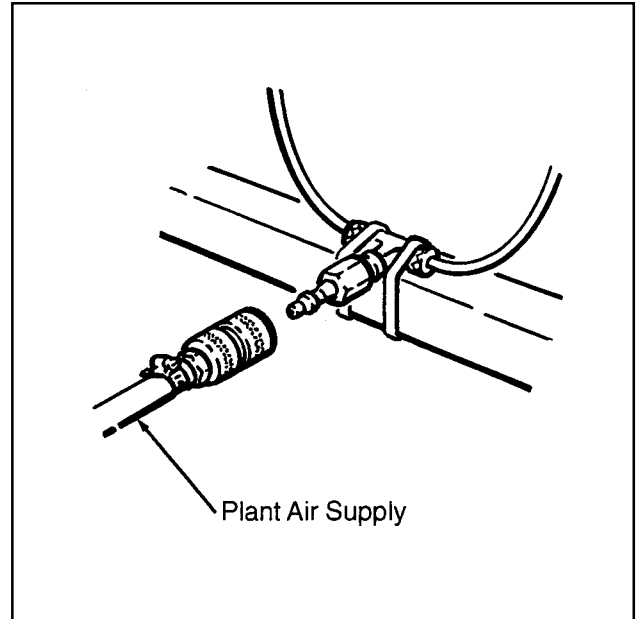


Figure 3-2 – Air Connection

## Initial Start-Up of the Dual S-857 Applicator

After completing the "Set-Up" procedure, continue through "Operation" section of this manual for tape loading/threading and to be sure machine operates properly.



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## Operation

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### WARNINGS

1. Turn air supply off and disconnect before servicing applicators.
2. The applicators are equipped with an extremely sharp tape cut-off knife. Be aware of knife and keep hands away from knife except as necessary to thread tape.

1. Tape Loading/Threading – See Section II, pages 8 and 9.
2. Turn plant air supply and both applicator air valves "On".
3. Adjust spacing of applicators – Loosen lock knob at front of each applicator (under work table) and slide applicators to desired spacing, then lock in place by tightening lock knob.
4. Push box forward over both applicator paddle stops and against box paddle, hold box firmly in applicator nests to allow application of tape "L" clips. Tape application takes 1/4 second, then box can be removed from machine nests while applicators complete their cycle. Total cycle time 1.2 seconds.

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## Adjustments/Maintenance/Troubleshooting

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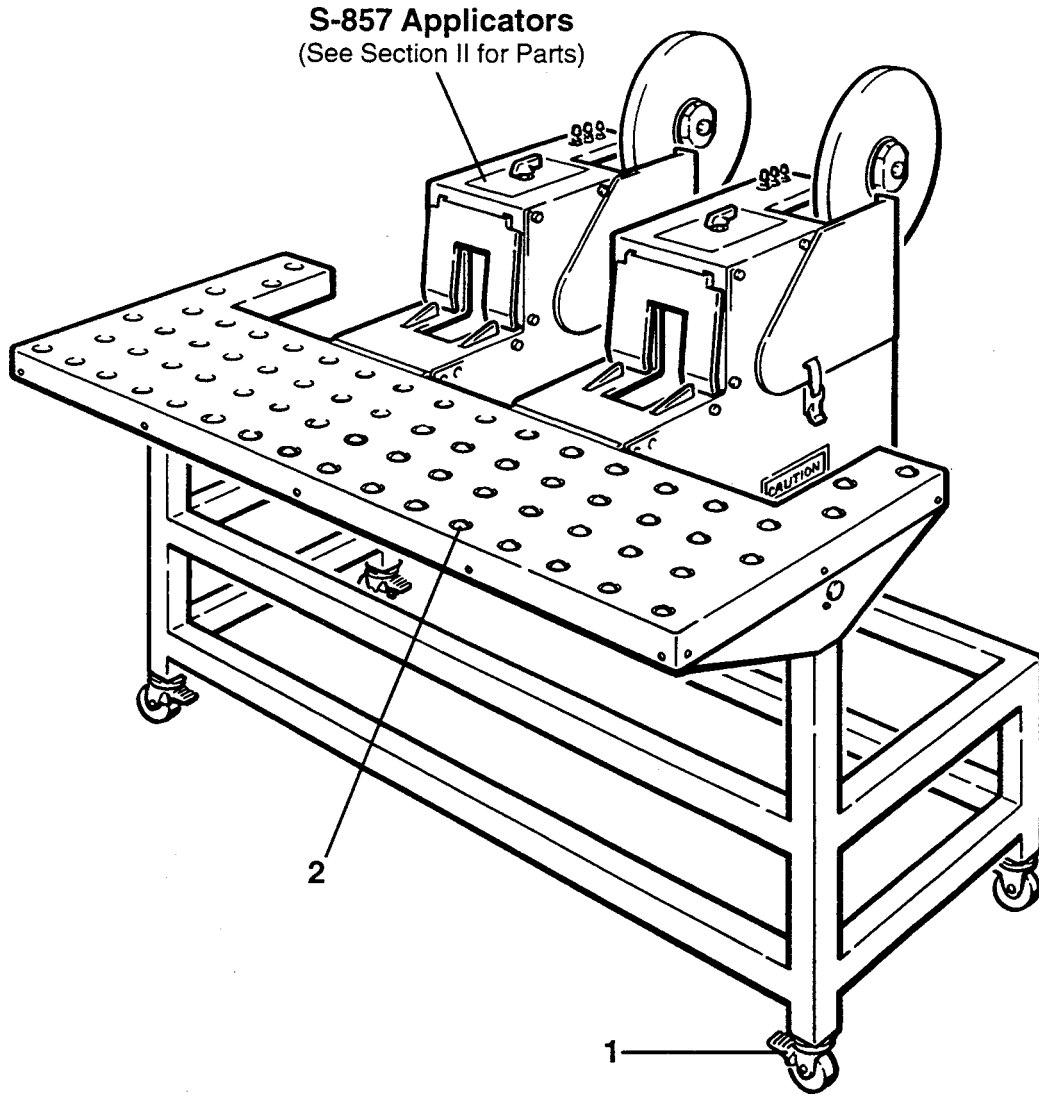
**Adjustments** – See Section II of this manual.

**Maintenance** – See Section II of this manual.

**Troubleshooting** – See Section II of this manual.

## Parts Illustration and Parts List

**Note** – See Section II, page 15 for recommended S-857 "L" Clip Applicator spare parts.



Ref. No.	3M Part No.	Description
1	26-1014-3759-3	Caster – Locking (Plastiglide)
2	26-1014-3788-2	Transfer Ball Assembly (Tri-State Bearing)

Refer to the first page of this instruction manual "Replacement Parts and Service Information", for replacement parts ordering information.