Model

702

Standalone Bottom Applicator

Service Manual

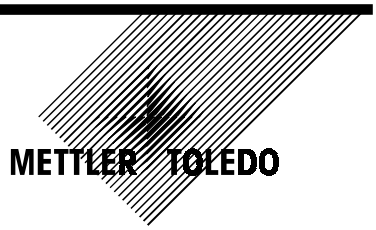
A15693400A
(12/00).00

METTLER TOLEDO®

Customer Feedback

Attention: Retail Quality Manager - MTWR

If you have a problem with one of our products or publications, or just a suggestion on how we can serve you better, please fill out this form and send it to the address on the opposite side of this page (U.S. postage paid), or fax it to us at **(614) 438-4355**. Your feedback will help us to improve product performance, quality, and service.



Part / Product Name:	
Part / Model Number:	**Date:**
Provided By:	
Customer Name:	
Address:	
Phone Number:	**Fax Number:**

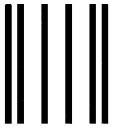
Your comments on product performance, quality, or service:

Do not write in space below. For METTLER TOLEDO use only.

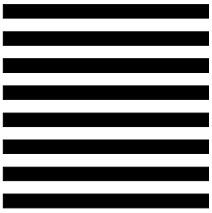
Response (where appropriate). Include root cause analysis and corrective action taken.

METTLER TOLEDO
1900 Polaris Parkway
Columbus, Ohio 43240

FOLD THIS FLAP FIRST



NO POSTAGE
NECESSARY IF
MAILED IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 414 COLUMBUS, OH

POSTAGE WILL BE PAID BY ADDRESSEE

Mettler-Toledo, Inc.
Retail Quality Manager - MTWR
P.O. Box 1705
Columbus, OH 43216
USA

Please seal with tape.

INTRODUCTION

This publication is provided solely as a guide for individuals who have received Technical Training in servicing the METTLER TOLEDO product.

Information regarding METTLER TOLEDO Technical Training may be obtained by writing to:

METTLER TOLEDO
Training Department
1900 Polaris Parkway
Columbus, Ohio 43240
(614) 438-4511

METTLER TOLEDO RESERVES THE RIGHT TO MAKE REFINEMENTS OR CHANGES WITHOUT NOTICE.

PRECAUTIONS

READ this manual BEFORE operating or servicing this equipment.

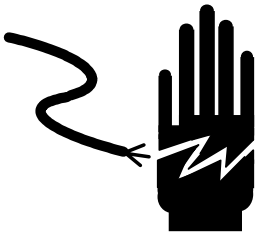
FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

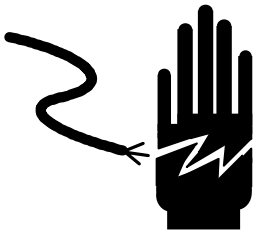
ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL METTLER TOLEDO for parts, information, and service.



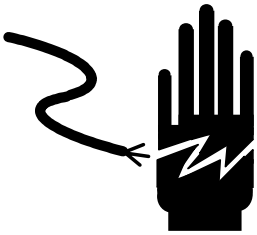
WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.



WARNING

FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.



WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE REMOVING THE FUSE OR SERVICING.

CAUTION

BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS BEFORE ANY CONNECTIONS OR DISCONNECTIONS ARE MADE. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT OR BODILY HARM.

CAUTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.

CONTENTS

1 General Description

Introduction

The **METTLER TOLEDO**® Model 702 Standalone Bottom Applicator is designed for use with **METTLER TOLEDO**® Model 602 automatic labelers to apply a variety of merchandising, information, and security labels to the bottom surface of a film-wrapped tray. The Model 702 Standalone Bottom Applicator is shown in Figure 1-1.

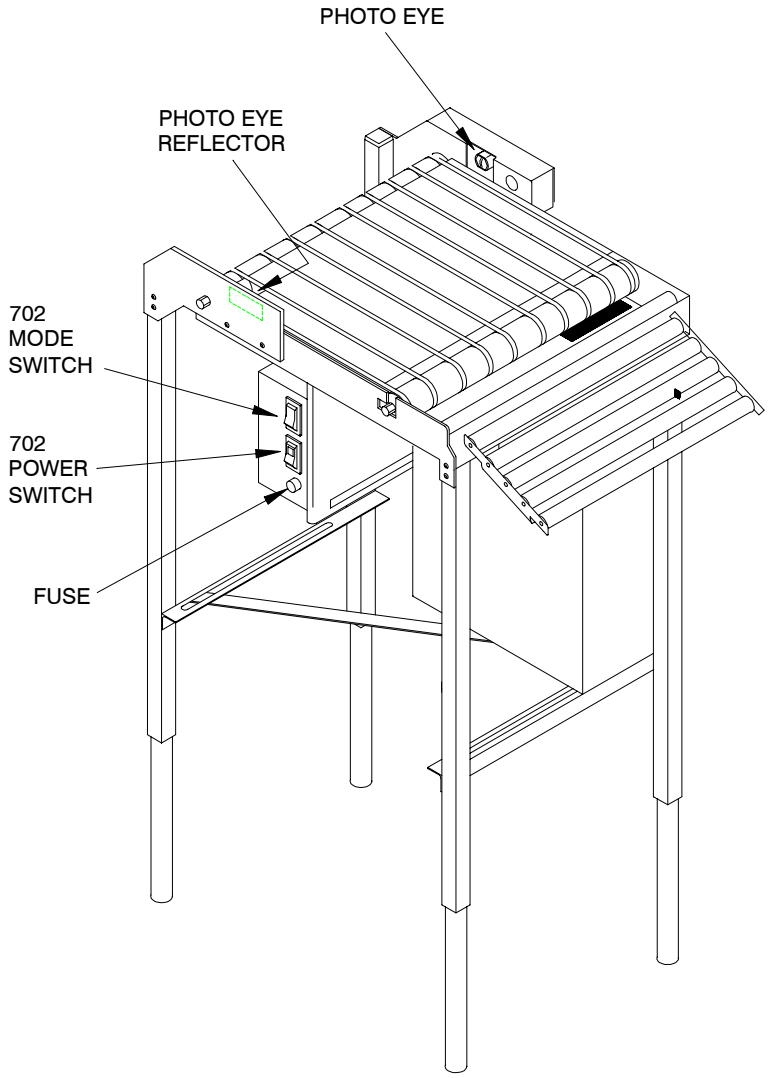


Figure 1-1: Model 702 Standalone Bottom Applicator

Overview

The Model 702 automatically indexes die cut labels using a gap sensor to detect the gaps between labels.

When a label is dispensed, it is partially ejected. The moving tray picks up the label as it is conveyed over the label.

Application is determined by the Mode Switch position. When the Mode Switch is in the "Apply" position, the scale controller sends an "apply" or a "do not apply" command to the Model 702 Control Board. If the Model 702 Interface Cable is not connected, the Model 702 will operate in the manual apply mode and a label will be applied to every package. When the Mode Switch is in the "Convey" position, no labels are applied.

2 Specifications

Factory Numbers

The Factory order number for the Model 702 Standalone Bottom Label Applicator is 0**702-0003** (replaces 0702-0002).

Major Component Map

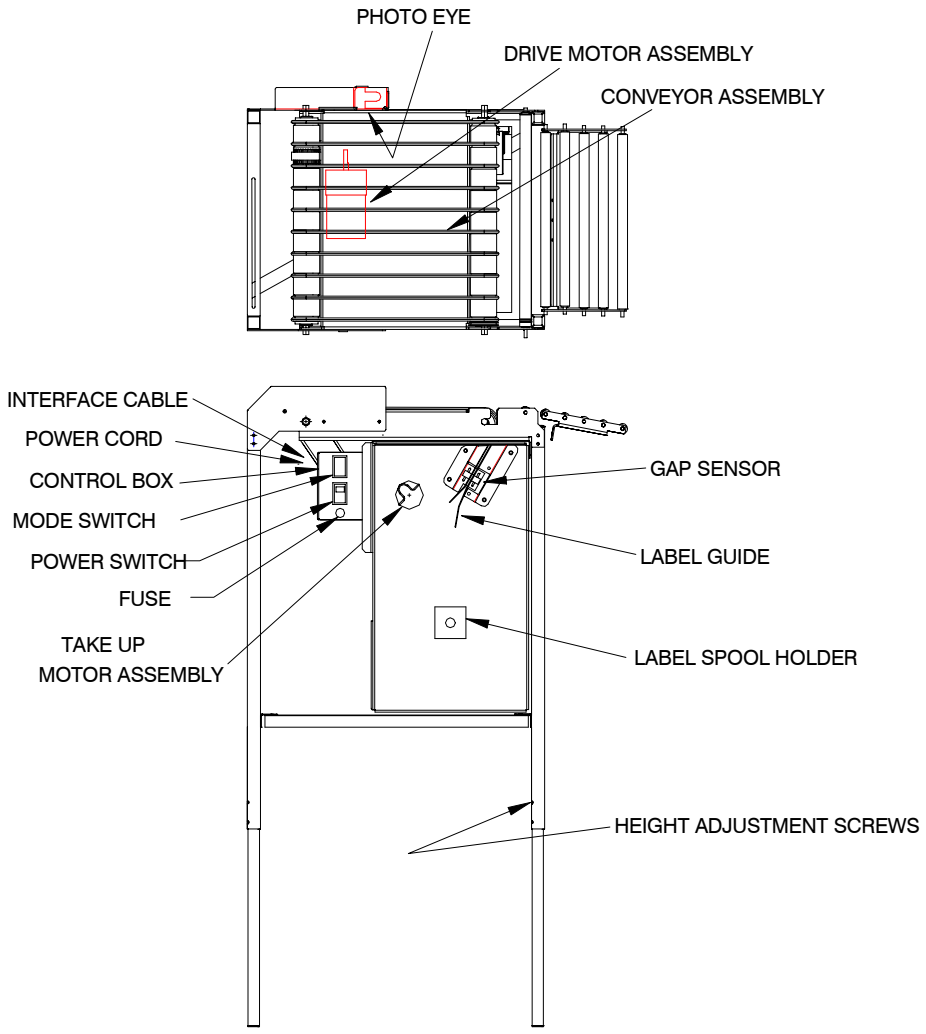


Figure 2-1: Major Components

Model 702 Dimensions

The dimensions are as shown in Figure 2-2.

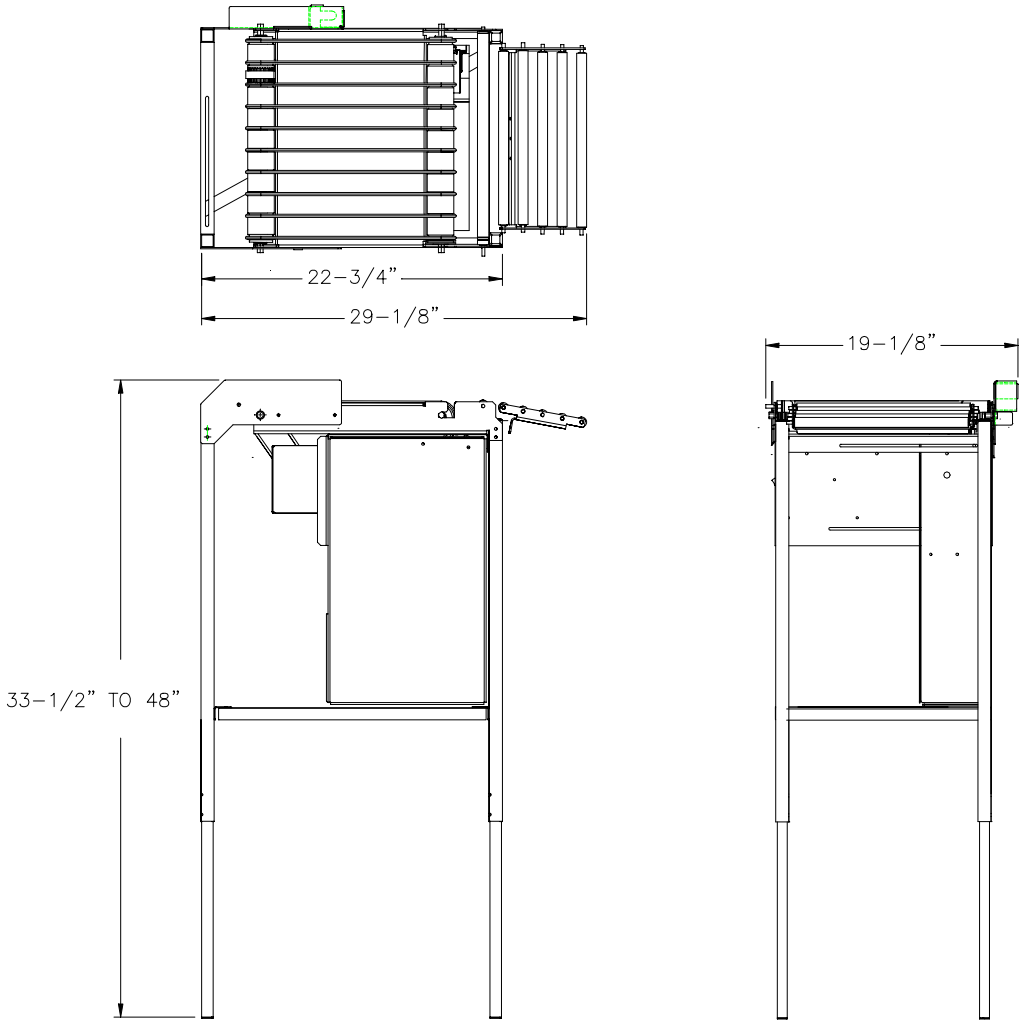


Figure 2-2: Model 702 Standalone Dimensions.

Product Specifications

Packs/Minute

The maximum package rate is 26 packs per minute.

Tray Sizes

The maximum tray size is 15-3/4 in. Lg. x 10-5/8 in. W. x 5-1/2 in. H.

The minimum tray size is 4-3/4 in. Lg. x 4 in. W. x 3/8 in. H.

Reliability

MTBF is 1,000,000 cycles, (approximately 2 years continuous operation) at 10,000 cycles per week.

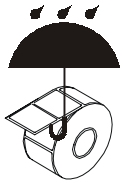
Motors

The Model 702 uses a 115 VAC motor to drive the conveyor belts and a 24 VDC motor to advance the labels to the application position and for liner takeup.

Power Requirements

The Model 702 requires 115 VAC, single phase, 60 Hz, at 5A nominal to operate.

Labels



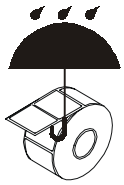
The Model 702 will operate with die cut labels from 1.5″ to 1.75″ wide and 1.7″ to 2.25″ long. The portion of the label, which passes through the gap sensor, must be opaque for proper operation. Labels must be dry for proper operation in the Model 702. The labels must be stored in a cool and dry location away from high humidity and condensation. The Model 702 can be used to apply the following types of labels.

- Nutrition Facts Labels.
- Other Merchandising labels.
- Checkpoint 1610 Meat Security Labels.
- Checkpoint 2010 Meat Security Labels.

Note: Labels less than 2″ long require an optional Stripper Bar Extension Kit, P/N 83216600A.

Environmental Requirements

Labels must be dry for proper operation in the Model 702. The labels must be stored in a cool and dry location away from high humidity and condensation. The Model 702 is designed to operate in ambient temperatures between 40°F and 104°F (4°C to 40°C) with a relative humidity between 10% and 95%, non-condensing.



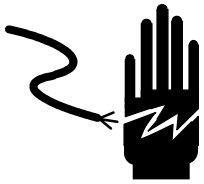
The Model 702 is designed for use in prepackaging backroom environments. This unit is not intended for wash-down operation, or operation in environments of extreme dust, heat, cold, or humidity. The integral control box is designed to prevent moisture from dripping onto the controls. No NEMA rating applies.

3 Setup and Operation

Unpacking

Remove the Model 702 from the shipping crate and carefully inspect for any damage. Report any shipping damage to your carrier immediately.

Installation with the Model 602



⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

To install the Model 702 on the Model 602, disconnect power to the Model 602, then perform the following steps:

1. Remove the last discharge roller on the Model 602.
2. Adjust the height of the Model 702 so the Model 702 mounting brackets line up with the holes of the removed roller. Adjust the height of the 702 support legs by loosening the two setscrews in each leg and extending the feet.
3. Attach the Model 702 to the Model 602 using the new roller and shaft that are shipped with the Model 702 Standalone. Refer to Figure 3-1.

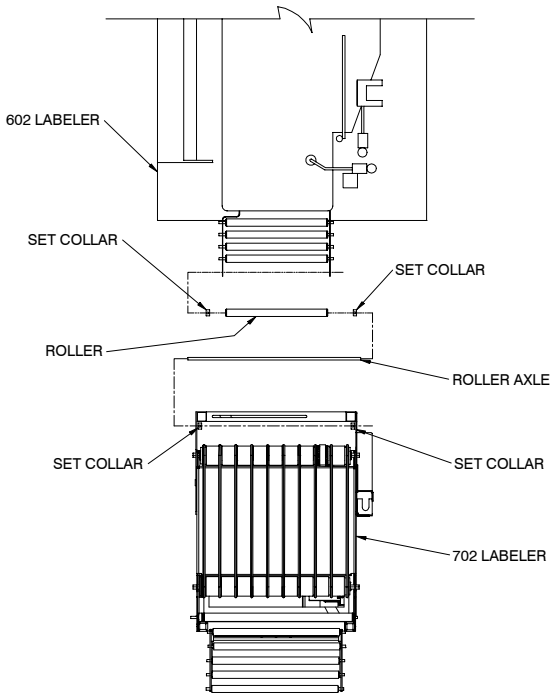


Figure 3-1: Mounting the Model 702 to Model 602

Loosen the four applicator-carriage mounting-screws and position the label chute in line with the price label applicator. Retighten the screws. (Figure 3-2 & 3-3).

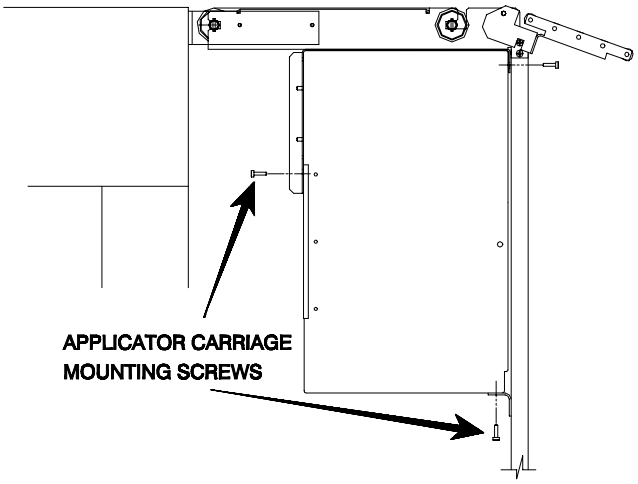


Figure 3-2: Carriage Position Adjustment

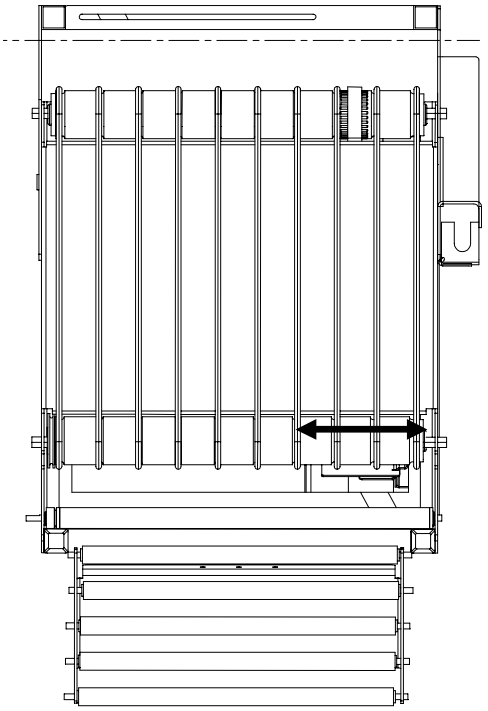


Figure 3-3: Label Chute Alignment

Install the 5-roller discharge conveyor as shown in Figure 3-4.

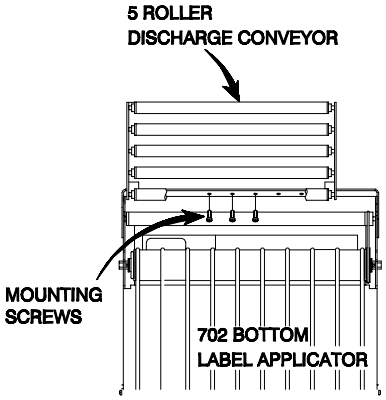


Figure 3-4: Discharge Roller Attachment

Interface Cable

Route and connect the Model 702 Interface Cable to the "Labeler" port on the prepack controller.

Power Switch

Turn the Power Switch to the off position, then plug the AC power cord from the Model 702 into a 115 VAC wall outlet. Press the Power Switch to the "ON" position. The conveyor will run whenever the Model 702 power is on.

Turn the Power Switch "OFF" if the Model 702 will not be used for long periods of unattended use.

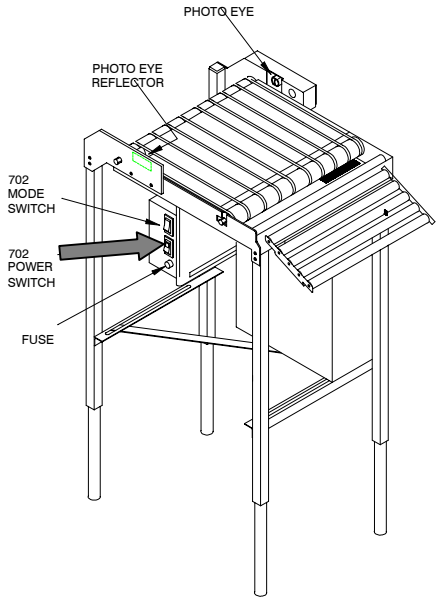
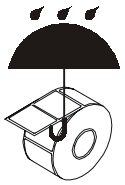


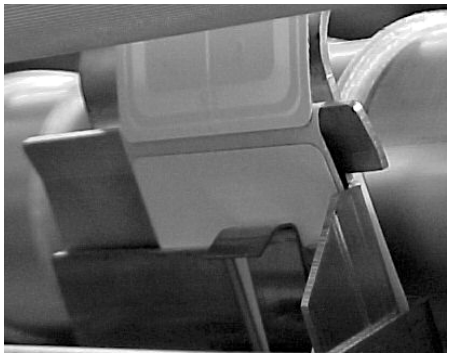
Figure 3-5: Power Switch

Loading Labels

The labels must be dry for proper operation in the Model 702. The labels must be stored in a cool and dry location away from high humidity and condensation.

The Model 702 is designed to operate in ambient temperatures between 40°F and 104°F (4°C to 40°C) with a relative humidity between 10% and 95%, non-condensing.





Refer to the Label Threading Diagram below (also located on the door) to load labels in the Model 702.

- Insert the label roll on the Supply Spool so the labels are pulled off counter-clockwise.
- Insert the labels into the Label Guide.
- Peel off about 12 inches of labels and route the liner under the Guide Pin.
- Remove the Clip Retainer from the Take Up Spool, wind the liner on the spool clockwise, then secure the liner with the Retainer Clip.

Refer to the notes at the left for proper storage and operation of the labels in the Model 702.

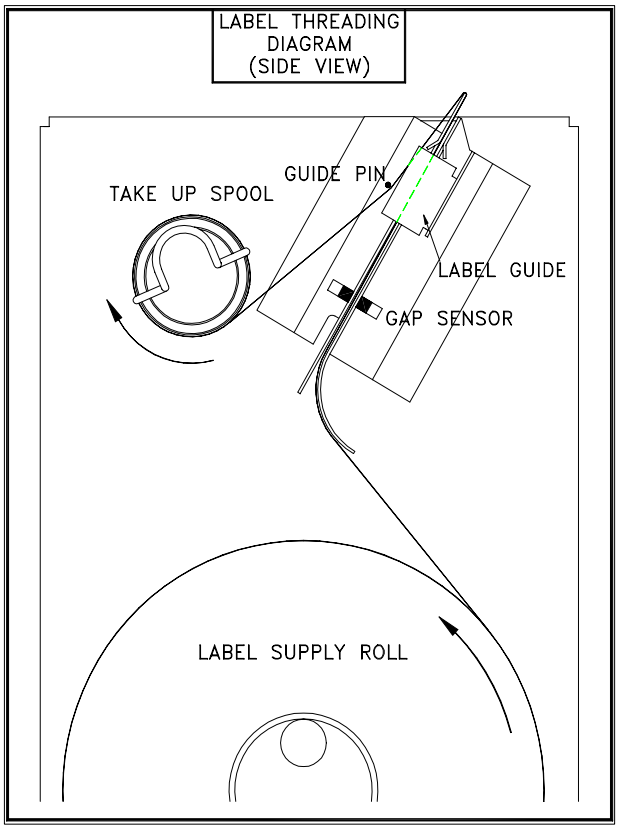


Figure 3-6: Label Threading Diagram

General Operation

The position of the label as it is ready to be picked up on the Model 702 is shown in Figure 3-7.

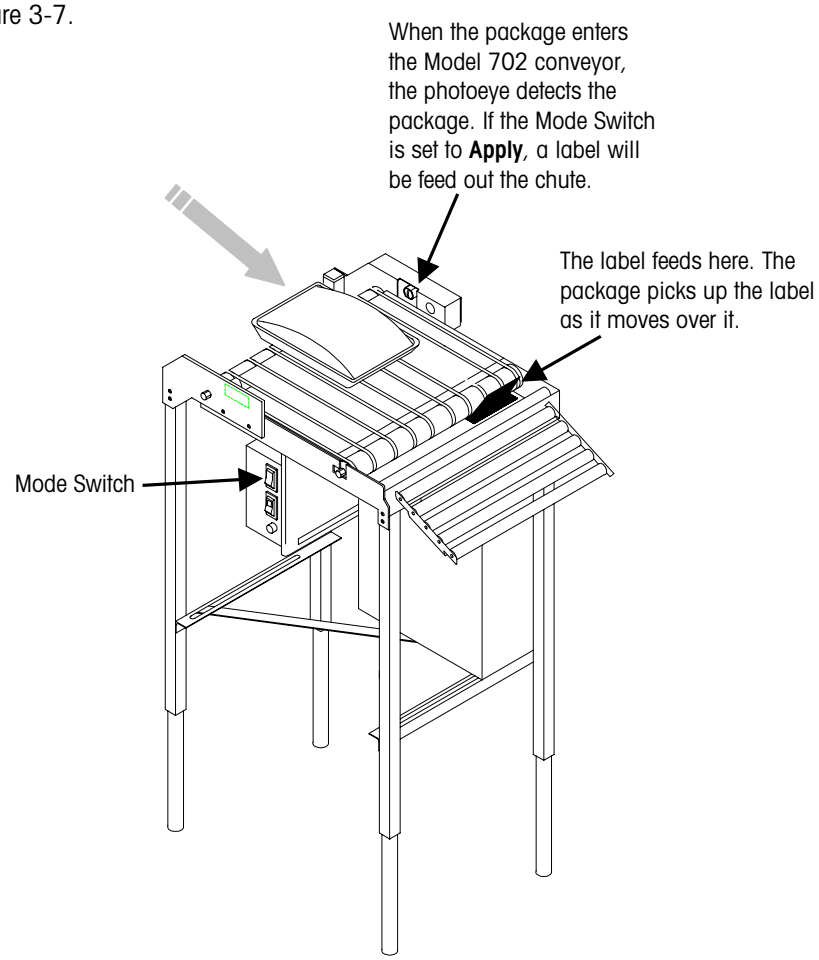


Figure 3-7: Label Application

The Model 702 Bottom Label Applicator has two modes of operation. A Mode Switch located on the operator side of the unit is used to select the mode of operation (see Figure 3-7).

When the switch is set on **Convey**, the label feed assembly is disabled and no labels are dispensed.

When the switch is set on **Apply**, there are two modes of operation: Continuous and Selective. These modes are controlled by settings in the prepack controller. If the interface cable is not connected to the prepack controller, the Model will operate in Continuous mode.

In Apply Mode, when the photoeye detects the leading edge of the package, the Model 702 will dispense a label as the package is conveyed. The label will advance out far enough to stick to the package. The package will then pull the rest of the label out as it moves over it. This sequence will be repeated for each package.

When the Model 702 detects out of labels or a jam, the beeper sound as follows:

Out of Labels – 4 beeps

Label Jam – 6 beeps

Label Positioning

The label position can be adjusted by using two methods:

1. Move the applicator towards the front or rear for front-to-back label positioning. (Figure 8. See Installation on the Model 602 for procedure.)
2. Positioning left toward the trailing edge or right toward the leading edge can be configured by DIP switches on the Model 702 Control PCB.

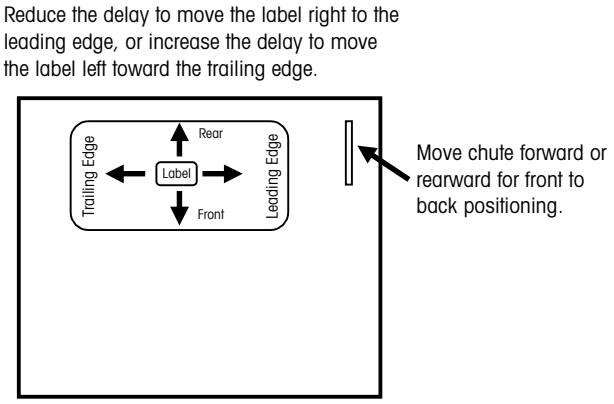


Figure 3-8: Label Position

SW1-1 through SW1-3 on the Control PCB are used to set the dispensing delay for label positioning. Increase the amount of delay to move the label toward the trailing edge (left) on the package. Decrease the delay to move the label closer to the leading edge (right).

1	2	3	Delay (ms)
0	0	0	300
1	0	0	320
0	1	0	340
1	1	0	360
0	0	1	380
1	0	1	400
0	1	1	420
1	1	1	450

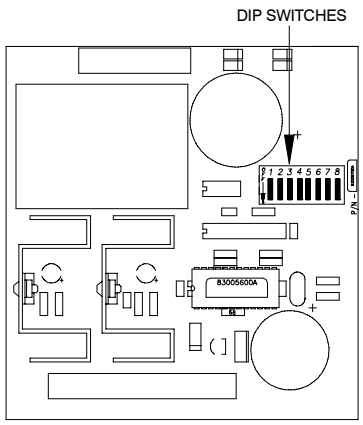
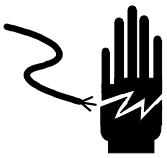


Figure 3-9 Delay Time Dipswitch Settings on Control PCB

4 General Maintenance, Cleaning, and Lubrication

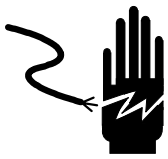
Disconnecting Power

Before cleaning or servicing the Model 702, disconnect power. "**Disconnect power**" means, set the Power Switch to OFF and unplug the AC line cord from the outlet. Failure to observe these precautions could result in bodily harm as the machine may operate unexpectedly.



⚠ WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.



⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

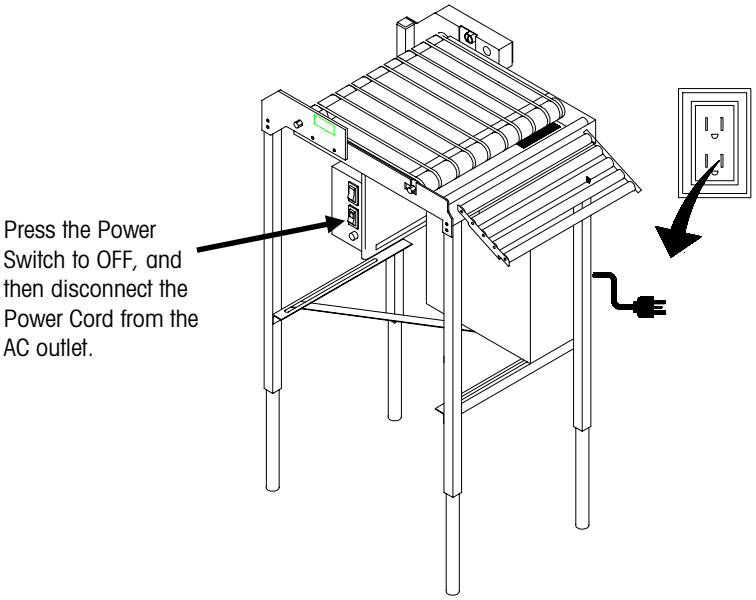
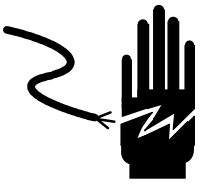


Figure 4-1: Disconnect Power before Servicing

Changing Conveyor Belts



WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Before servicing the Model 702, set the Power Switch to OFF and unplug the AC line cord from the outlet.

The conveyor belts use a slice connector.

A damaged belt at the butt splice can be repaired by cutting the damaged end off. A butt splice can be used to repair a belt by ordering Butt Splice P/N 82114200A.

To remove or replace a belt, separate the belt at the splice by pulling on each end. Insert the new belt and push both ends of the belt on the connector.

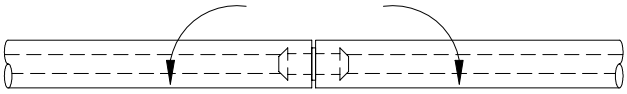
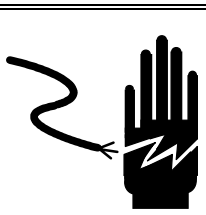


Figure 4-2: Conveyor Belt Joint

Conveyor Motor and Belt Replacement

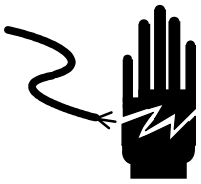


WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Disconnect AC power to the Model 702 by turning the power switch off and disconnecting the AC power cord from the outlet.

Motor Drive Belt Replacement



WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Disconnect AC power to the Model 702 by turning the power switch off, then disconnecting the AC power cord from the outlet.

First, remove the conveyor belts by separating each belt at the splice.

Remove the two screws at the top of the electrical box rear cover and pivot the cover down.

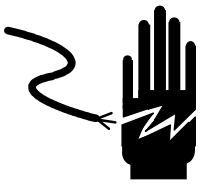
Loosen the four mounting-bracket screws and slide the bracket toward the conveyor to reduce the tension on the drive belt.

Remove the drive belt from the pulley and slide the conveyor roller out. Slide the belt off the conveyor roller. Install the new belt on the conveyor roller and on the motor pulley.

Install the conveyor belts.

Apply hand tight tension to the drive belt by moving the motor bracket away from the conveyor, then tighten the capscrews on the bracket.

Motor Drive Belt Tension



WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

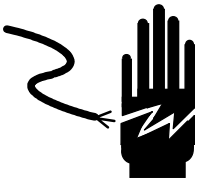
Disconnect AC power to the Model 702 by turning the power switch off, then disconnecting the AC power cord from the outlet.

Remove the two screws at the top of the electrical box rear cover and pivot the cover down.

Loosen the four motor mount bracket screws and slide the bracket toward the conveyor to reduce the tension on the drive belt, or away from the conveyor to increase tension. The tension should be hand tight only.

Tighten the capscrews when the correct tension is set.

Motor Replacement



⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Disconnect AC power to the Model 702 by turning the power switch off, then disconnecting the AC power cord from the outlet.

Remove the two screws at the top of the electrical box rear cover and pivot the cover down.

Disconnect the Red wire and White wire to the capacitor.

Disconnect the Black wire from the motor at Terminal 7 on the 7-pin connector terminal strip.

Loosen the four mounting-bracket screws and slide the bracket to reduce the tension on the drive belt.

Loosen the setscrew on the motor pulley using a 2.5mm Hex Wrench.

Remove the four capscrews securing the motor to the bracket. Install the new motor in reverse order.

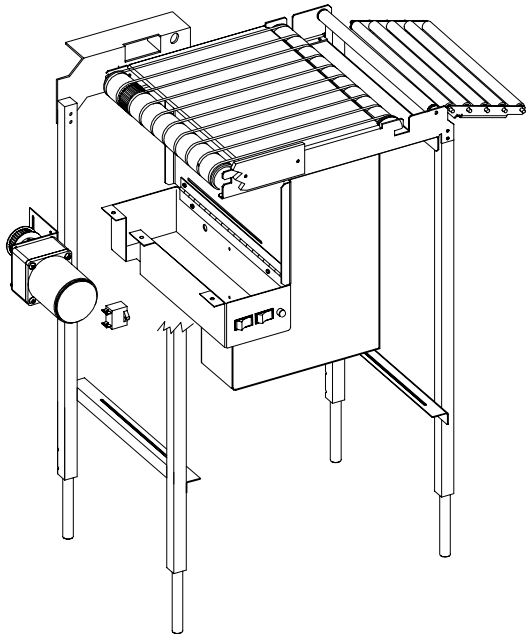


Figure 4-3: Drive Motor Replacement

Gap Sensor Replacement

WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Disconnect AC power to the Model 702 by turning the power switch off, then disconnecting the AC power cord from the outlet.

Remove the two screws at the top of the electrical box rear cover and pivot the cover down.

Disconnect the black cable from the Gap Sensor at the 12-pin Terminal Strip on terminals 1-2-3 (Figure 4-4).

Remove the spool from the label take up motor.

Remove the cable conduit that holds the gap sensor and take up motor wires in place.

Remove the label guide assembly.

Remove the Gap Sensor by removing the two Phillips-head screws.

Install the new sensor on the label guide assembly.

Route the new cable the same as the old cable; through the wiring cover, the cord grips and to the terminal strip.

Connect the wires as follows:

Brown Wire to Terminal 1
Black Wire to Terminal 2
Blue Wire to Terminal 3

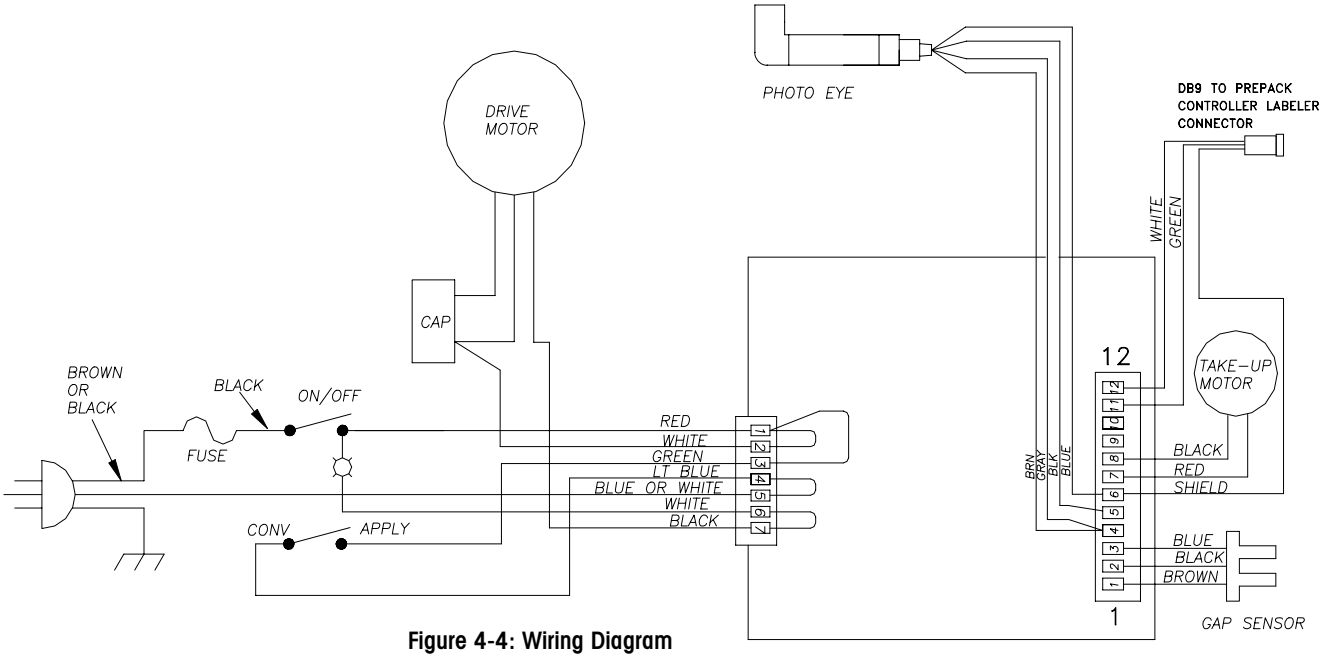


Figure 4-4: Wiring Diagram

Adjust the gap sensor so the labels stage with ½ to 1 mm of label remaining on the liner. This will typically be down about ¼ of the way. See Figure 4-5.

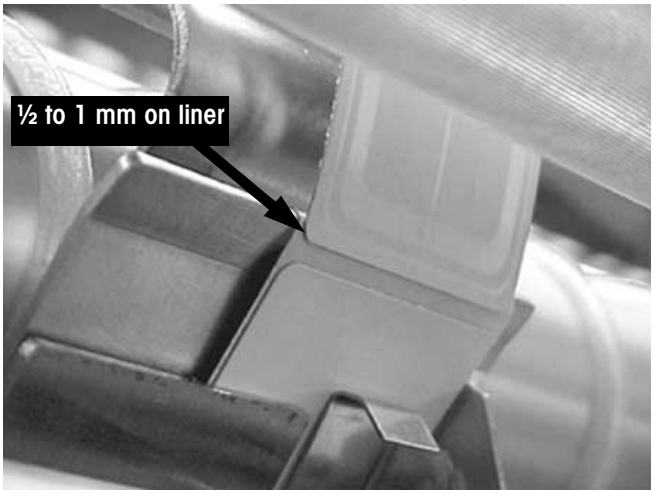
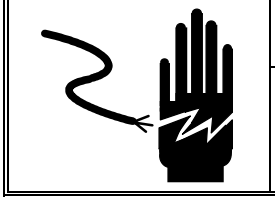


Figure 4-5: Gap Sensor Adjustment

Photoeye Replacement



⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Disconnect AC power to the Model 702 by turning the power switch off, then disconnecting the AC power cord from the outlet.

Remove the two screws at the top of the electrical box rear cover and pivot the cover down.

Disconnect the black cable from the Photoeye at the 12-pin Terminal Strip on terminals 4-5-6 (Figure 4-4).

Remove the photoeye from the bracket.

Install the new photoeye in the bracket.

Route the new cable the same as the old cable; through the cord grips and to the terminal strip.

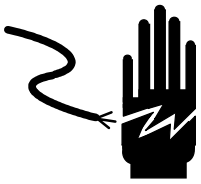
Connect the wires as follows:

Brown and Gray Wires to Terminal 4
Black Wire to Terminal 5
Blue Wire to Terminal 6

Close the electrical box.

Power up the 702 and adjust the photoeye so the light beam is centered in the reflective strip.

Cleaning



⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

Disconnect AC power to the Model 702 by turning the power switch off, then disconnecting the AC power cord from the outlet. Failure to observe these precautions could result in bodily harm as the machine may operate unexpectedly.

Use a soft clean cloth dampened with a mild detergent and water to wipe the exterior surfaces. Do not spray liquids directly on the unit. A mild spray cleaner can be used by spraying the cleaning cloth. Do not use solvents or commercial cleaners on the unit. Use a soft clean cloth to wipe the dirt and grime off the conveyor rollers and belts.

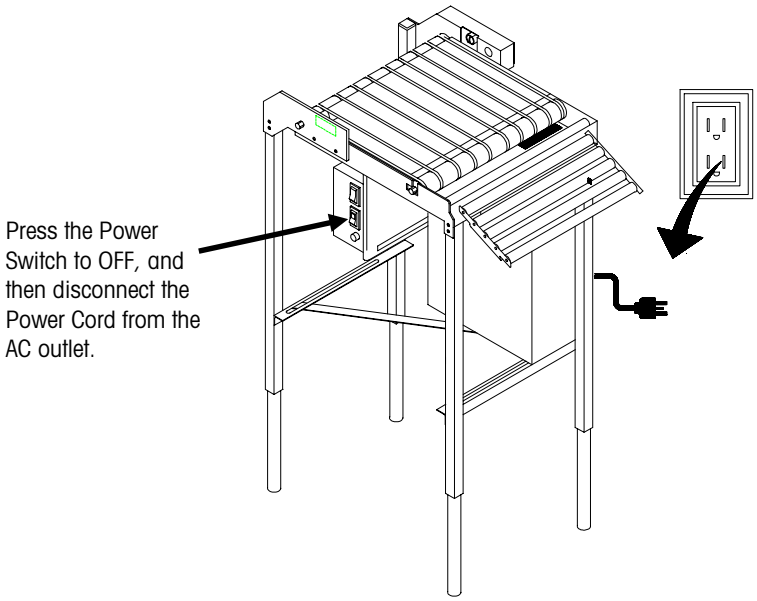
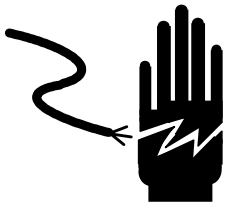


Figure 4-6: Disconnect Power before Servicing

Lubrication

The machine should lubricated at least once a year by a factory-trained technician only.



WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

The Model 702 should be lubricated by a factory-trained technician only. Use a light oil (FMO 350) on the following parts:

- Head and tail pulley bearings
- Transfer roller bearings (2)

Note: Avoid getting lubricant on the conveyor drive belts.

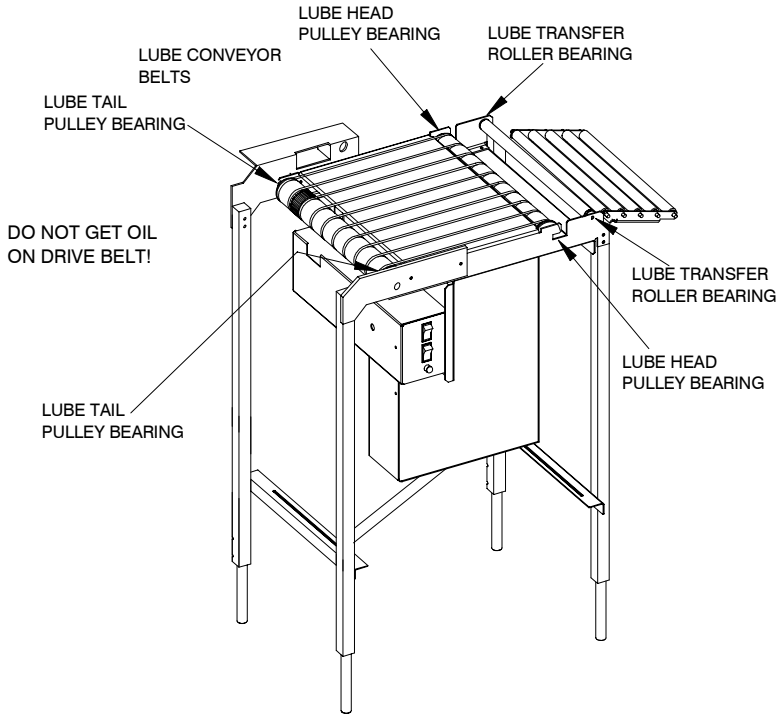


Figure 4-7: Lubrication Points

Control PCB Replacement

Figure 4-8 shows how to remove the Control PCB and Figure 4-9 shows the layout of the Control PCB.

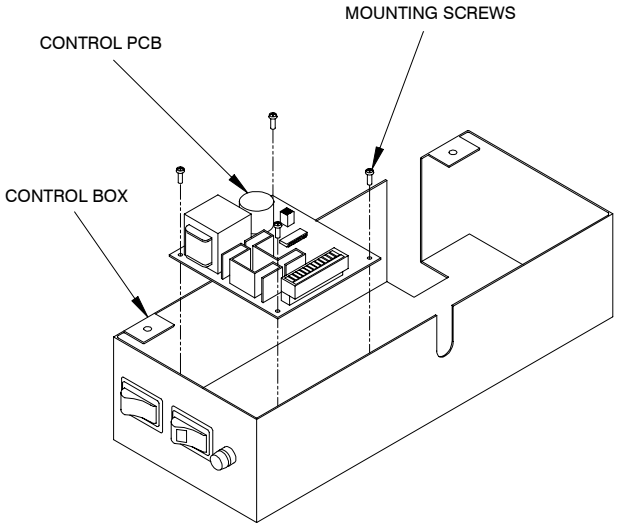


Figure 4-8: Control PCB Replacement

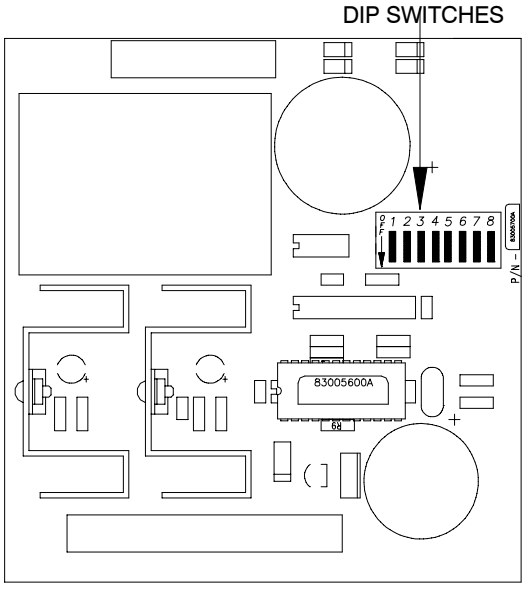
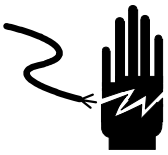


Figure 4-9: Control PCB Layout

5 Troubleshooting

Conveyor Motor

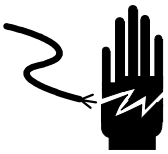


⚠ WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

The conveyor motor will run continuously when the power switch is ON. If voltage is present and the motor does not run, there is a bad connection at the board or capacitor, a broken wire, a faulty motor capacitor, or a faulty conveyor motor.

Take-Up Motor



⚠ WARNING

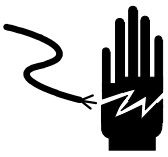
ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

The take-up motor is a 24VDC gearmotor and will run when the Mode Switch is in the APPLY position and when the Photoeye is blocked.

To test, place dipswitch 4 on the Control PCB to the ON position. This will cause the take-up motor to run anytime the gap sensor or photoeye is blocked. If the motor will not run when the photoeye is blocked, but runs when the gap sensor is blocked, the problem is with the photoeye. If the motor will not run when either the photoeye or the gap sensor is blocked, check for 24VDC at pins 7 and 8 of the 12-pin connector with one of the sensors blocked.

If voltage (24VDC) is not present, The Control PCB is defective. If voltage is present, the problem is a bad connection inside the Model 702 cover or a faulty take-up motor. Be sure to turn off dipswitch 4 when finished testing.

Gap Sensor

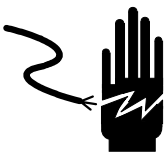


⚠ WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

To test the operation of the Gap Sensor, watch the LED on the Gap Sensor while moving label stock in and out of the sensor. The LED should respond to the gap sensor. If this does not occur there is a bad connection between the Control Board and the Gap Sensor or a faulty Gap Sensor.

Mode Switch



⚠ WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

The Mode Switch connects and disconnects power to the Control PCB. When the switch is in the apply position, 115VAC should be present between pins 4 and 5 on the 7pin terminal strip. If this does not occur, there is a bad connection between the control board and the switch or a faulty switch.

Interconnecting Diagram

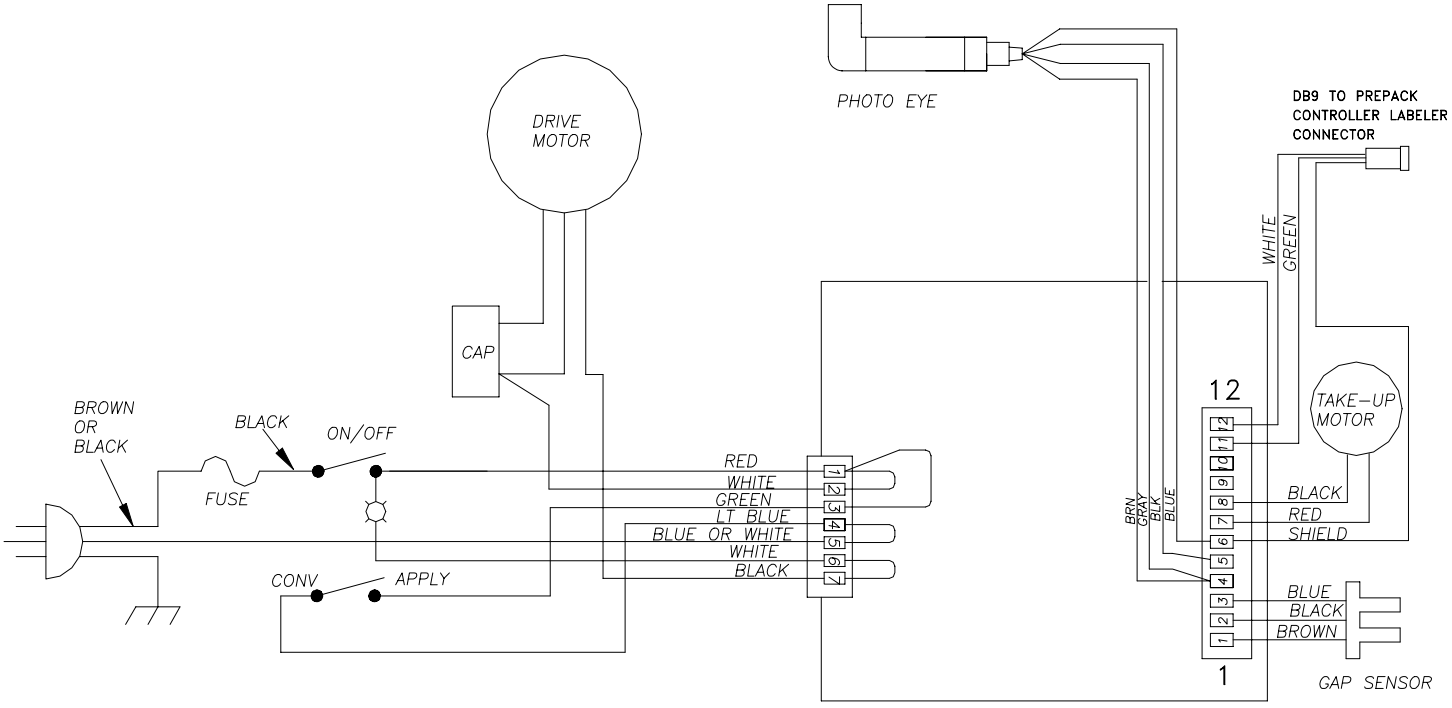
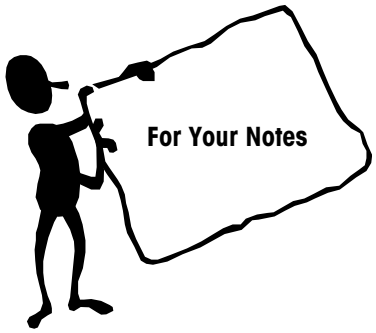


Figure 5-1: Model 702-0003 Wiring Diagram


For Your Notes

6

Replacement Parts

This chapter lists replacement parts available from METTLER TOLEDO® Aftermarket.

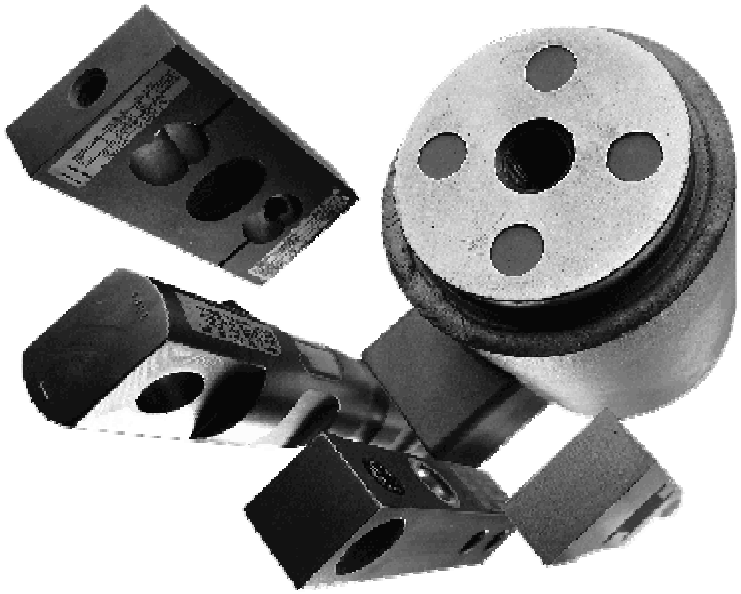
The Aftermarket Operation at METTLER TOLEDO® is dedicated to satisfying every customer every time. The ISO registered facility provides quick, efficient and quality service. Aftermarket services include everything from daily parts shipments and product repairs to load cells and overhaul kits compatible with most scale manufacturers.

Aftermarket Services:

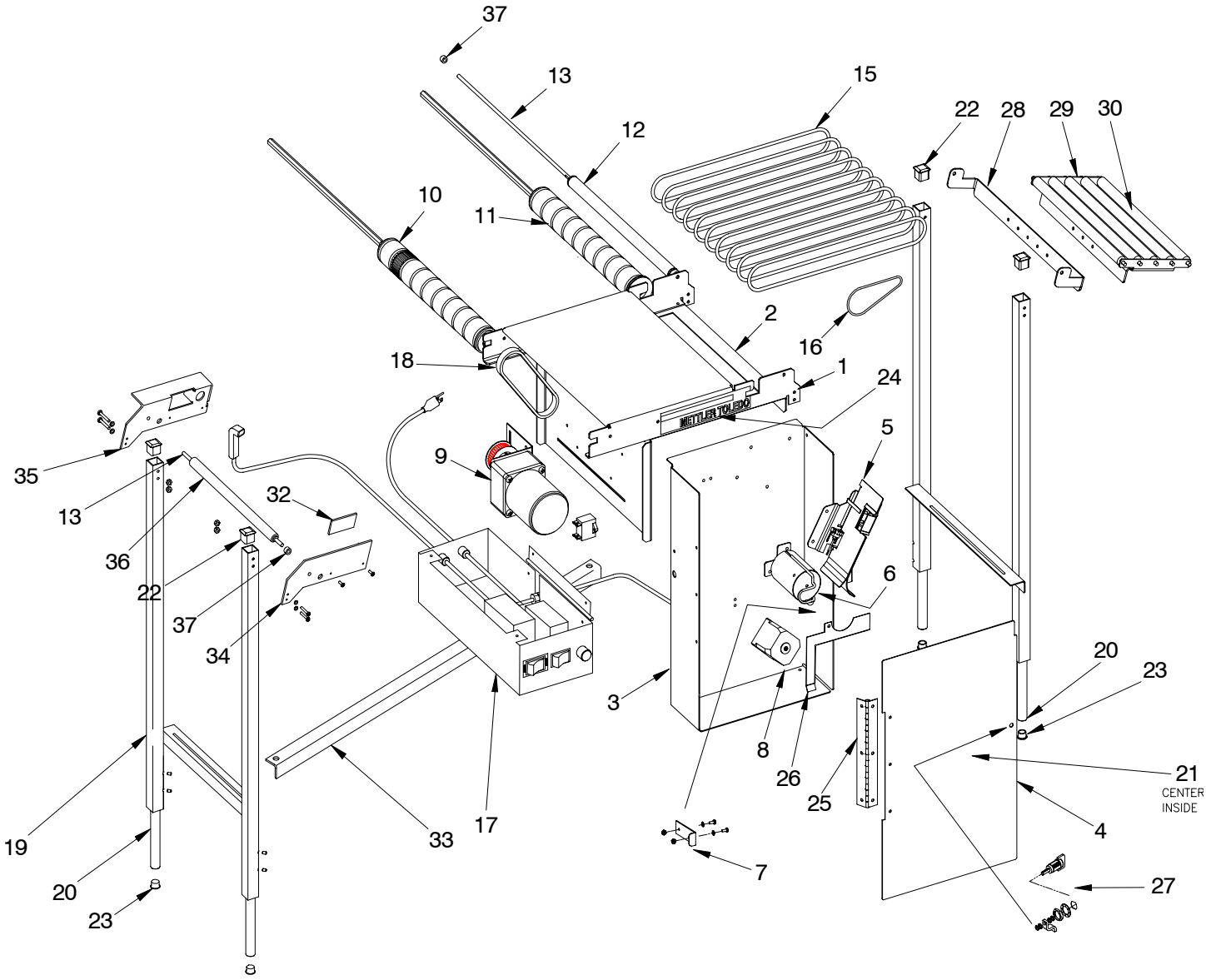
- Same day replacement parts shipment
- Full service repair center
- Printed circuit board repair and exchange program
- Load cell weighing solutions
- Load cell exchange program
- Mechanical scale overhaul kits
- Rental scales

Mettler-Toledo, Inc.
Aftermarket
60 Collegeview Road
Westerville, Ohio 43081
Tel: (800) 848-3992
(614) 430-2555
Fax: (800) 405-6312
(614) 438-4921

Rental
Tel: (800) 428-4310
Fax: (614) 841-5185
E-mail: rental@mt.com



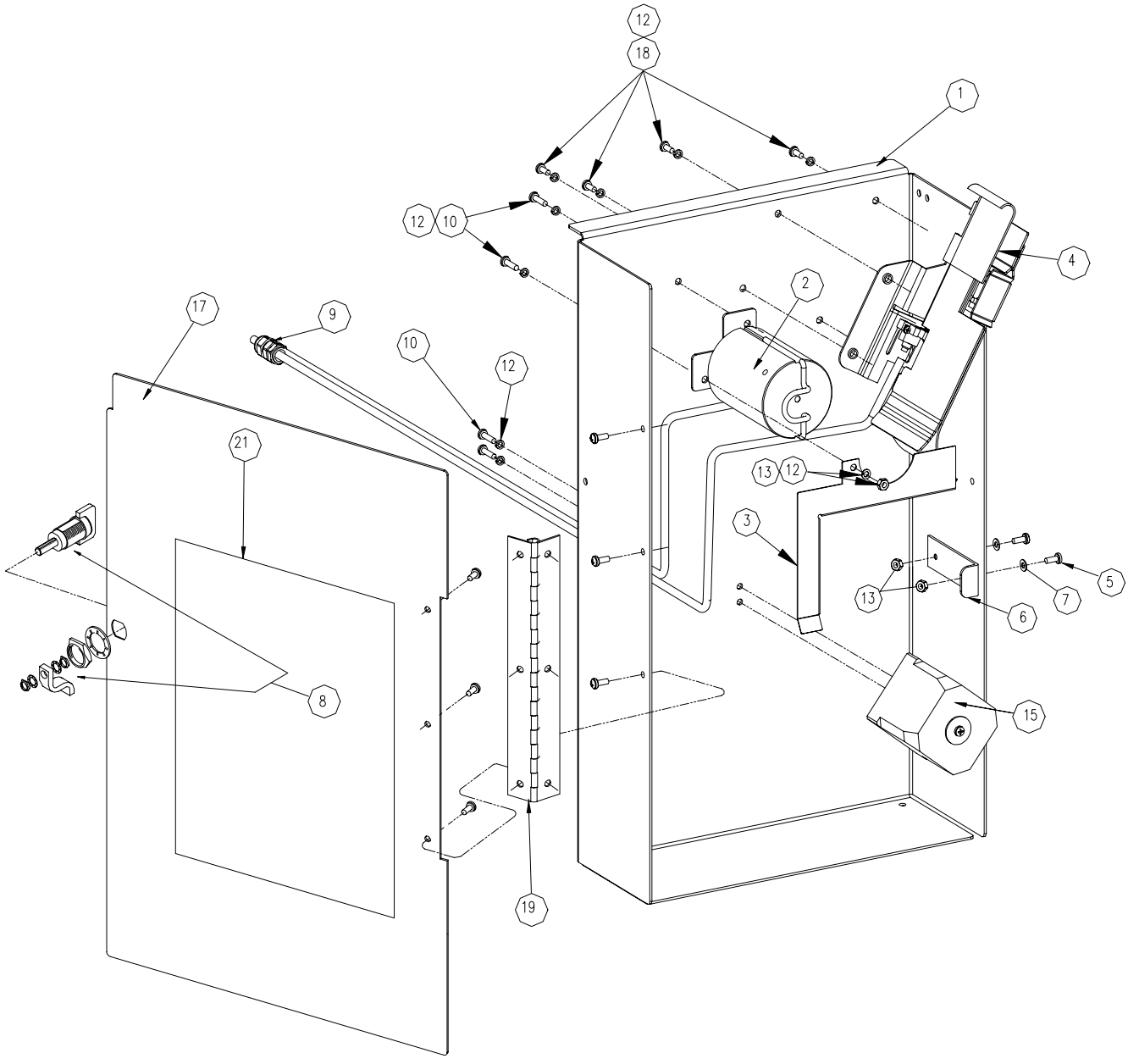
Model 702


37
13
15
12
22
28
29
30
10
11
2
16
18
1
24
5
9
35
13
32
36
22
37
34
6
20
23
3
8
26
25
21
CENTER
INSIDE
4
19
33
17
7
27
20
23

Model 702 Parts List

ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	FRAME, CONVEYOR TOP	82962300A
2	1	FRAME, CONVEYOR BOTTOM	82962500A
3	1	FRAME, LABEL INFEED ASSEMBLY	82962600A
4	1	DOOR	83028500A
5	1	LABEL GUIDE	A83003500A
6	1	TAKE UP MOTOR ASSEMBLY	83003400A
7	1	BRACKET, LATCH	83028700A
8	1	SUPPLY SPOOL ASSEMBLY	83010000A
9	1	MOTOR ASSEMBLY, CONVEYOR DRIVE - GEARS, CAP, MOTOR	82994100A
10	1	DRIVE PULLEY ASSEMBLY	82803000A
11	1	IDLER PULLEY ASSEMBLY	82987300A
12	1	ROLLER TUBE ASSEMBLY	82987000A
13	2	SHAFT - ROLLER, DISCHARGE END	82986800A
15	10	BELTING, 1/4" DIA. X 33.75", QUICK GO	82986700A
16	1	BELTING, 1/8" DIA. X 10", QUICK GO	82654000A
17	1	MOTOR COVER AND SWITCH MOUNT ASSEMBLY	83025200A
18	1	TIMING BELT, CONVEYOR DRIVE BELT	82993700A
19	2	LEG ASSEMBLY - VERTICAL AND CROSS	82990300A
20	4	LOWER LEG, 3/4" ROUND STOCK, 18.5" LONG	82407400A
21	1	THREADING DIAGRAM DECAL - ON INSISDE OF DOOR	83001100A
22	4	END CAPS, 1" SQUARE	81733500A
23	4	END CAPS, 5/16" ROUND	82603200A
24	2	METTLER TOLEDO DECAL	83012800A
25	1	HINGE ASSEMBLY - FOR DOOR	82666300A
26	1	CABLE CONDUIT, INTERNAL COMPONENT WIRING	82990700A
27	1	DOOR LATCH	83021200A
28	1	CONNECTING BRACKET DISCHARGE CONVEYOR	82990200A
29	1	FRAME - 702 DISCHARGE CONVEYOR	82990100A
30	5	ROLLER 13.25" LONG	82172500A
32	1	REFLECTIVE TAPE	82144300A
33	1	STAND ALONE CROSS BRACE	83014600A
34	1	FRONT BRACKET	83009400A
35	1	REAR LEG BRACKET	83009300A
36	1	ROLLER ASSEMBLY	82818800A
37	4	1/4" STAINLESS STEEL SET COLLAR	81895700A

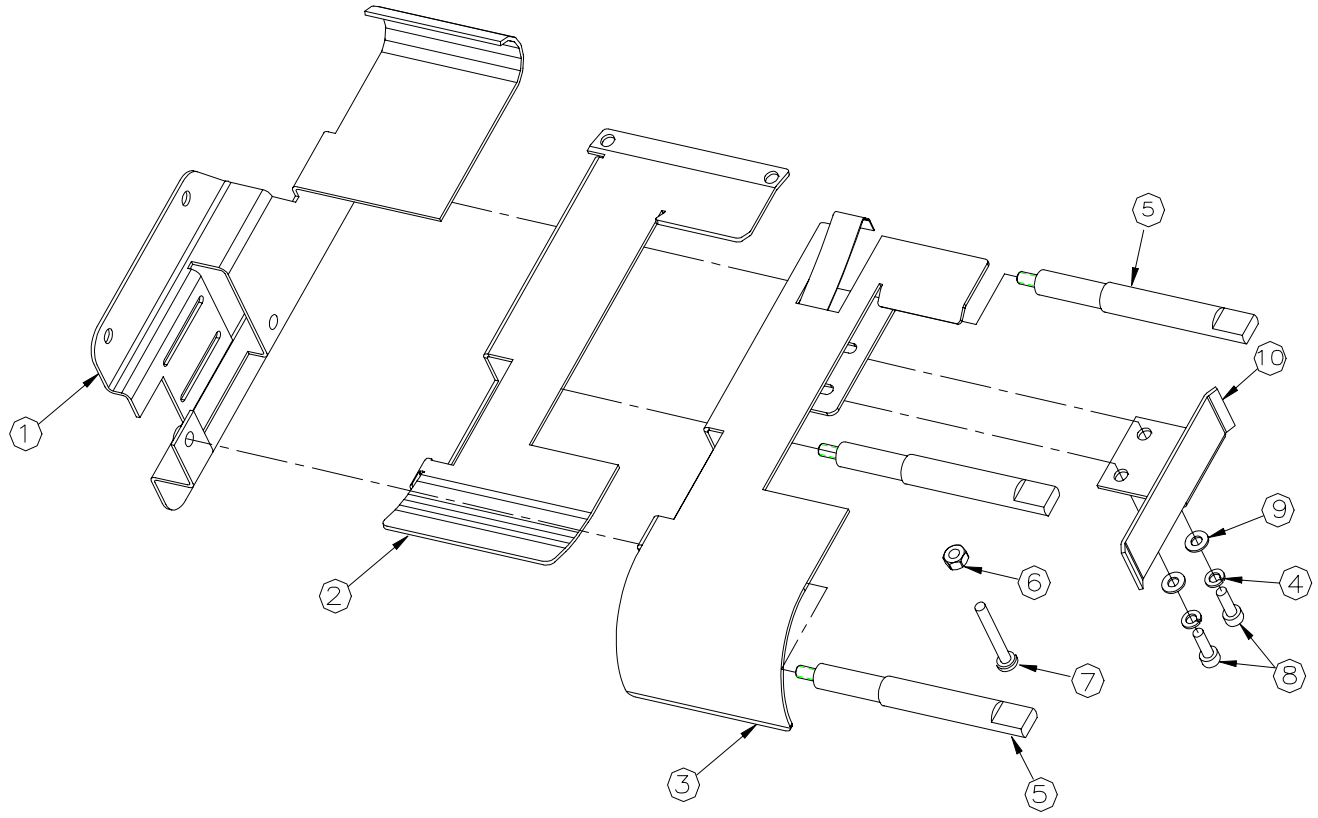
Carriage Hardware



Carriage Hardware

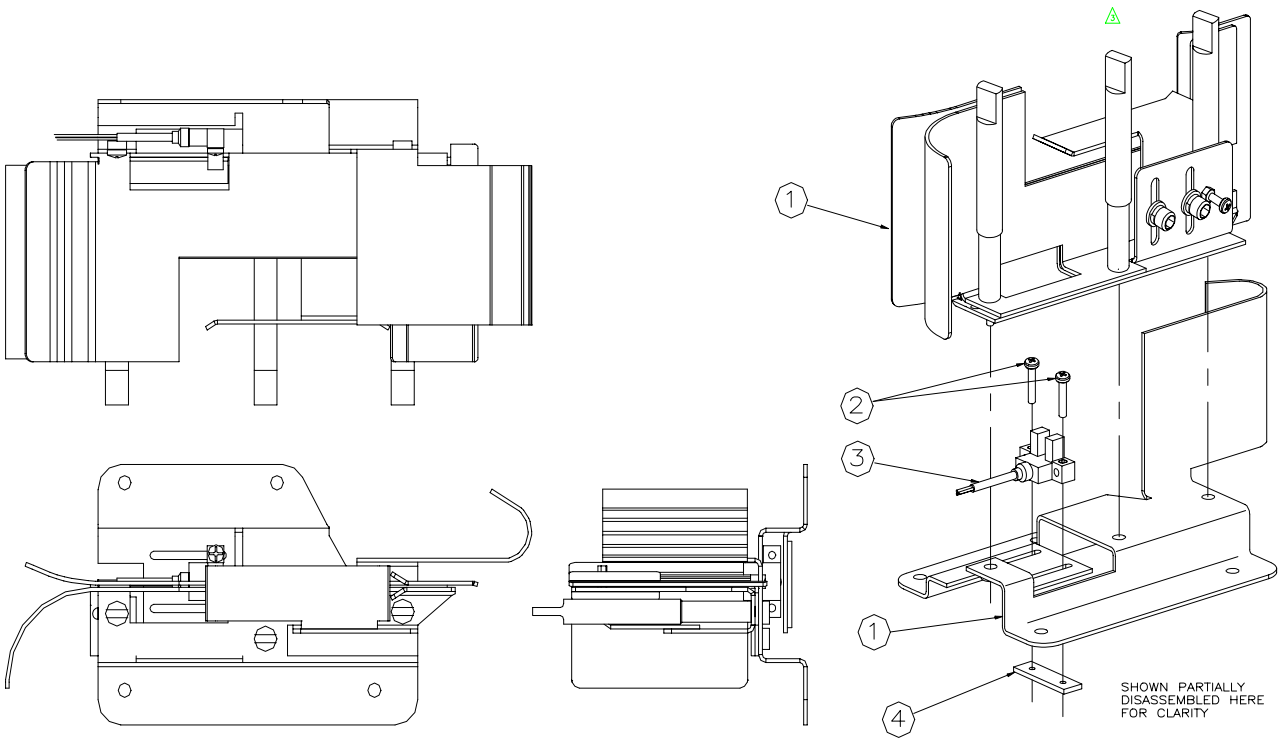
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	82962600A	FRAME, LABEL FEED ASSEMBLY
2	1	83003400A	TAKE UP MOTOR ASSEMBLY
3	1	82990700A	CABLE CONDUIT, INTERNAL COMPONENT WIRING
4	1	A83003500A	LABEL GUIDE ASSEMBLY
5	2	82715100A	PHILLIPS TRUSS HEAD SCREW, SS, M4 X 6MM LONG
6	1	83028700A	BRACKET, LATCH
7	2	83023000A	TOOTHED LOCK WASHER SS, DIN 6797 TYPE A M4
8	1	83021200A	DOOR LATCH PRINTER
9	1	81976100A	CORD GRIP – 1/2" LIQUID TIGHT
10	4	82715400A	M4 X 12 CRHCS
11	2	82709000A	HEX LOCK NUT, SS, DIN 985 M4 THREAD
12	8	82710800A	M4 LOCK WASHER DIN 127B SS
13	1	82708400A	M4 HEX NUT, SS
15	1	83010000A	SUPPLY SPOOL ASSEMBLY
16	2	82715500A	M4 X 16 CRHCS
17	1	83028500A	COVER
18	4	82715900A	CRHCS M4X8MM
19	1	82666300A	HINGE ASSEMBLY
21	1	83001100A	THREADING DIAGRAM DECAL, ON INSIDE OF DOOR

Label Guide



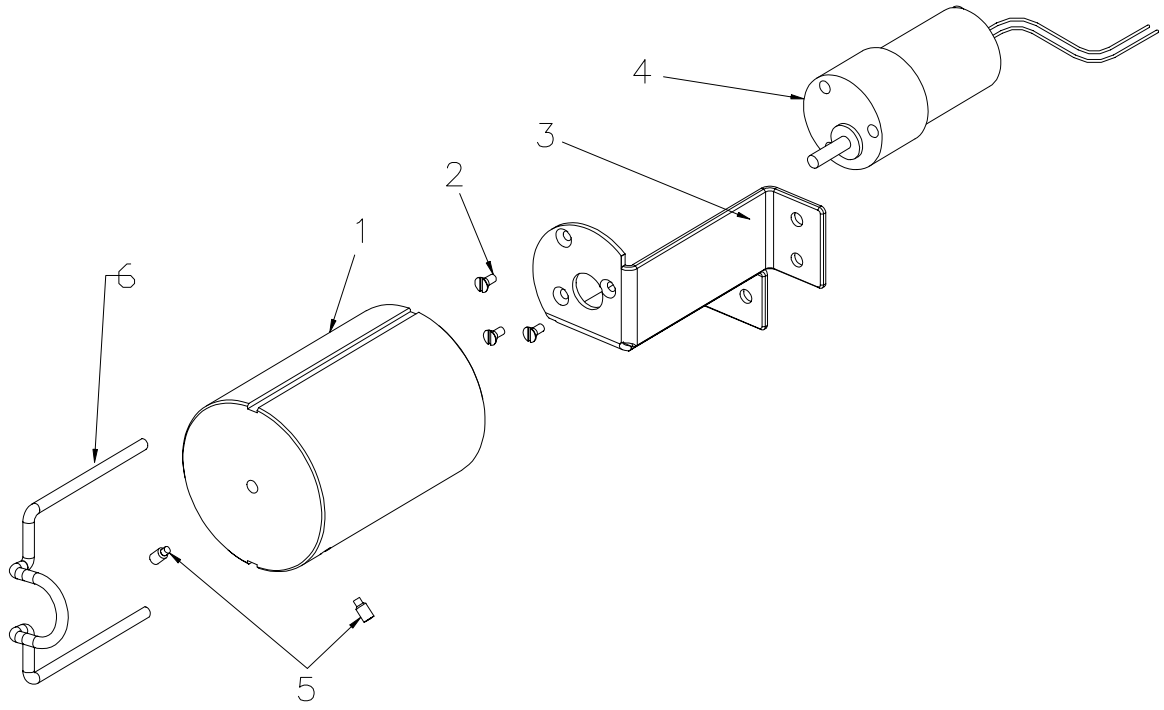
ITEM	QUAN.	DESCRIPTION	QUAN.
1	1	BRACKET—TRACK MOUNT	A83071100A
2	1	TRACK—UPPER—STRIPPER BAR EXTENSION FEATURE	A83070900A
3	1	TRACK—LOWER	A83071000A
4	2	LOCK WASHER M3 STAINLESS STEEL	82710800A
5	3	THUMBSCREW, 78MM SHOULDER	83144600A
6	1	HEX NUT M4 STAINLESS STEEL	82708500A
7	1	CROSS RECESS HD. CAP SCREW M4 X 30MM	82715800A
8	2	SOCKET HEAD CAP SCREW M4 X 12MM	82713300A
9	2	FLAT WASHER M4 STAINLESS STEEL	82709500A
10	1	BRACKET—TRACK MOUNTING	83071200A

Label Guide Assembly



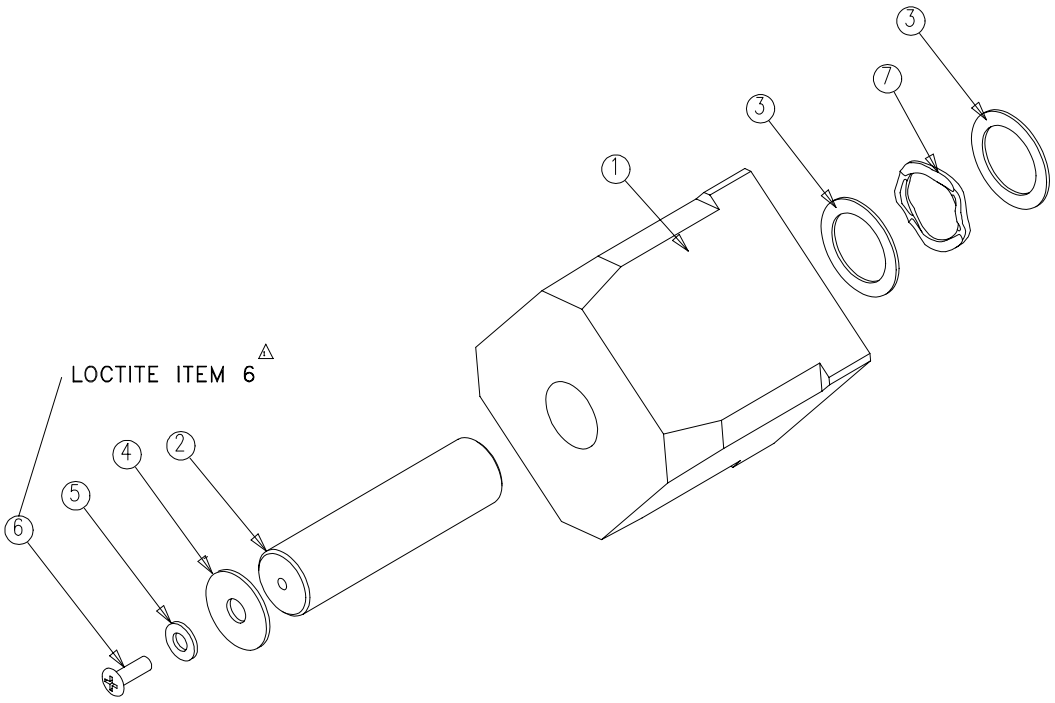
ITEM	QUAN.	DESCRIPTION	PART NUMBER
1	1	LABEL GUIDE	A83071300A
2	2	CROSS RECESS HEAD CAP SCREW M3 X 12MM	82719100A
3	1	GAP SENSOR	82993800A
4	1	PLATE–SENSOR MOUNT	82962200A

Take Up Motor Assembly



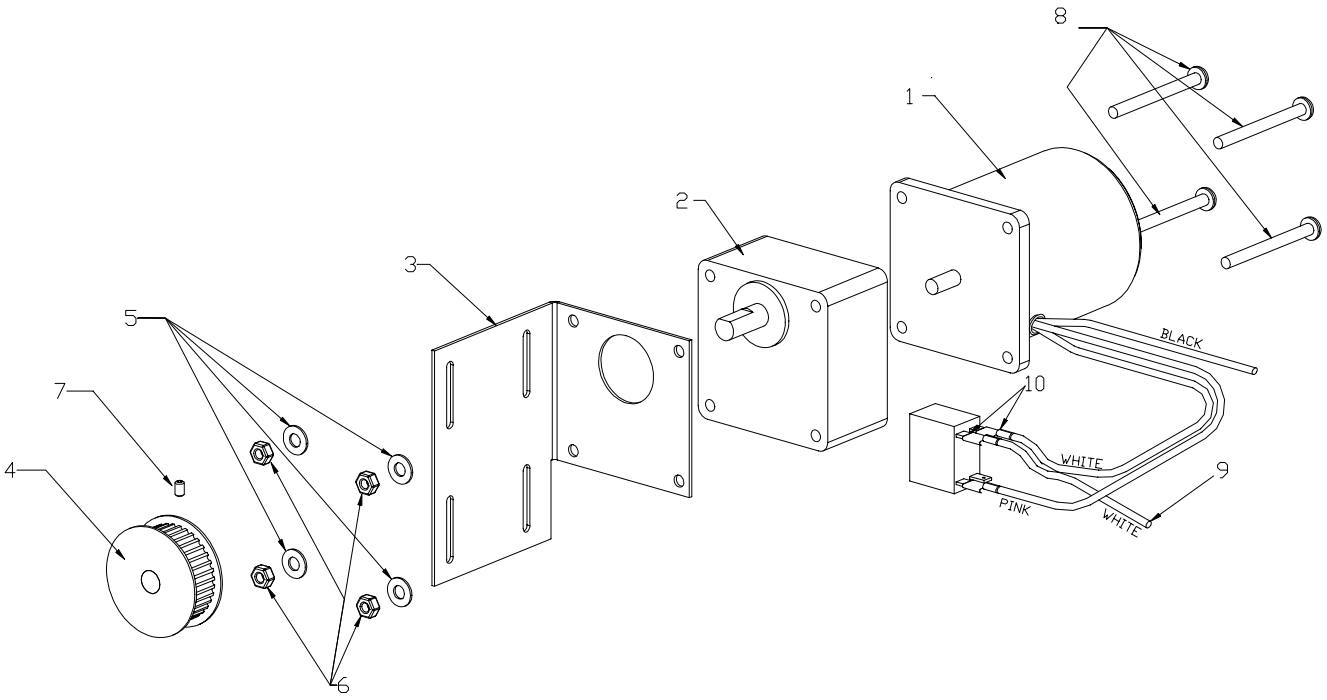
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	TAKE UP SPOOL 2.5 DIA.	82997900A
2	3	SCREW, FLT SOC HD, SLOTTED 4–40X1/4"	R0277800A
3	1	TAKE UP SPOOL INTERNAL MOTOR MOUNT	82989100A
4	1	TAKE UP SPOOL DC MOTOR–GLOBE	83004600A
5	2	DOG TIP SET SCREW, SS, DIN 915 M4X8MM	82718500A
6	1	ROD – 702 TAKE UP CLIP	82987200A

Supply Spool Assembly



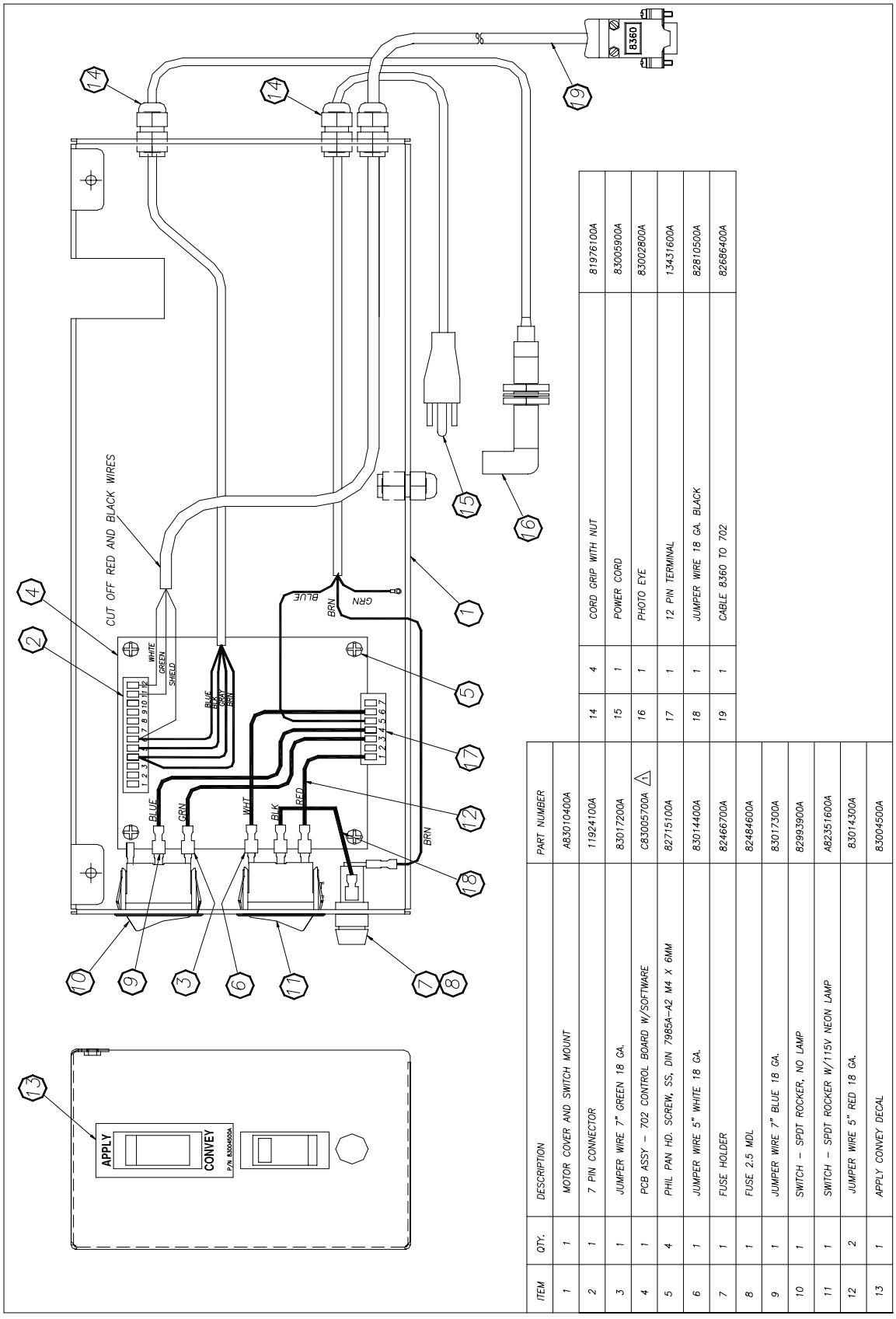
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	83009600A	SUPPLY SPOOL BOBBIN
2	1	83009500A	SUPPLY SPOOL SHAFT
3	2	82711600A	M20 FLAT WASHER
4	1	81360500S	FENDER WASHER, ID .280, OD .887
5	1	82710500A	FENDER WASHER, SS, DIN 9021B–M4
6	1	82823100A	M4 X 10MM PHIL TRUSS HEAD SCREW
7	1	83010100A	.780 ID, .120 TALL WAVE WASHER

Conveyor Motor Assembly



ITEM	QTY	DESCRIPTION	PART NO.
1	1	ORIENTAL WORLD MOTOR	82996400A
2	1	ORIENTAL GEAR BOX, RATIO = 9	82996500A
3	1	BRACKET - MOTOR MOUNT	82962700A
4	1	TIMING PULLEY, 5mm PITCH, 36 GROOVES	82996100A
5	4	1/4" FLAT WASHERS (INCLUDED W/ GEARBOX)	82996500A
6	1	1/4-20 NUTS (INCLUDED W/ GEARBOX)	82996500A
7	1	FLAT TIP SET SCREW M5X8mm	82718100A
8	4	1/4X20X3 3/4" PH HEAD SCREW (INC. W/GEARBOX)	82996500A
9	17"	WIRE, 18 AWG MTW WHITE	433118999
10	3	SLIP ON TERMINAL	82028500A

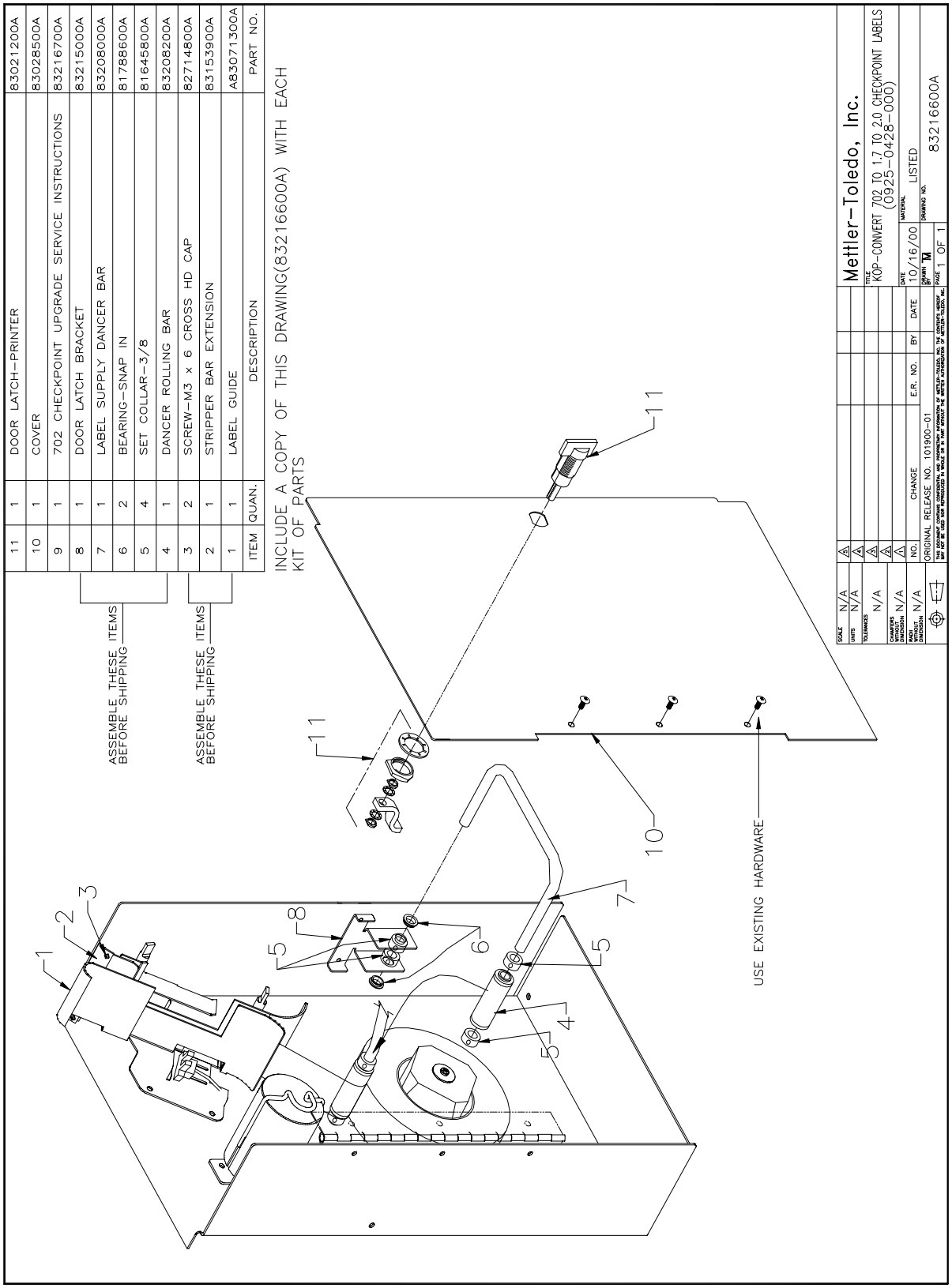
Electrical



ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	MOTOR COVER AND SWITCH MOUNT	A83010400A
2	1	7 PIN CONNECTOR	11924100A
3	1	JUMPER WIRE 7" GREEN 18 GA.	83017200A
4	1	PCB ASSY – 702 CONTROL BOARD W/SOFTWARE	C83005700A ⚠
5	4	PHIL PAN HD. SCREW, SS, DIN 7985A–A2 M4 X 6MM	82715100A
6	1	JUMPER WIRE 5" WHITE 18 GA.	83014400A
7	1	FUSE HOLDER	82466700A
8	1	FUSE 2.5 MDL	82484600A
9	1	JUMPER WIRE 7" BLUE 18 GA.	83017300A
10	1	SWITCH – SPDT ROCKER, NO LAMP	82993900A
11	1	SWITCH – SPDT ROCKER W/115V NEON LAMP	A82351600A
12	2	JUMPER WIRE 5" RED 18 GA.	83014300A
13	1	APPLY CONVEY DECAL	83004500A
14	4	CORD GRIP WITH NUT	81976100A
15	1	POWER CORD	83005900A
16	1	PHOTO EYE	83002800A
17	1	12 PIN TERMINAL	13431600A
18	1	JUMPER WIRE 18 GA. BLACK	82810500A
19	1	CABLE 8360 TO 702	82686400A

Checkpoint® Conversion Kit

This kit, 0925-0428, is required to convert the Model 702 so it can be used with 1.7″ to 2.0″ Checkpoint® labels.

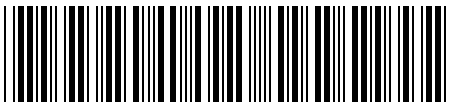


ITEM	QUAN.	DESCRIPTION	PART NO.
11	1	DOOR LATCH-PRINTER	83021200A
10	1	COVER	83028500A
9	1	702 CHECKPOINT UPGRADE SERVICE INSTRUCTIONS	83216700A
8	1	DOOR LATCH BRACKET	83215000A
7	1	LABEL SUPPLY DANCER BAR	83208000A
6	2	BEARING-SNAP IN	81788600A
5	4	SET COLLAR-3/8	81645800A
4	1	DANCER ROLLING BAR	83208200A
3	2	SCREW-M3 x 6 CROSS HD CAP	82714800A
2	1	STRIPPER BAR EXTENSION	83153900A
1	1	LABEL GUIDE	A83071300A

METTLER TOLEDO
1900 Polaris Parkway
Columbus, Ohio 43240
www.mt.com

P/N: A15693400A

(12/00).00



A15693400A