623

Belt Sealer

Service Manual

15755900A
(11/99).00

METTLER TOLEDO®

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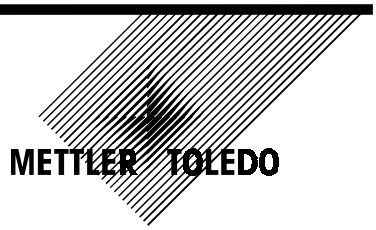

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METTLER TOLEDO 623 Service Manual 15755900A 11/99

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This publication is provided 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 calling (614) 438-4940 or writing to:

METTLER TOLEDO, Training Dept., 1900 Polaris Parkway, Columbus, Ohio 43240

FCC Notice

This device complies with Part 15 of the FCC Rules and the Radio Interference Requirements of the Canadian Department of Communications. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Publication Revision History

Part Number	Date	Revisions
15755900A	11/99	New Manual

PRECAUTIONS

READ this manual BEFORE operating or servicing this equipment.

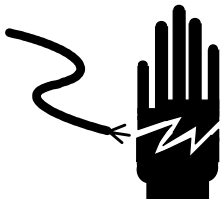
FOLLOW these instructions carefully.

SAVE this manual for future reference.

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

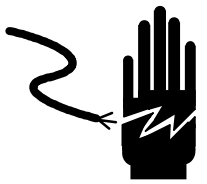
ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL METTLER TOLEDO for parts, information, and service.



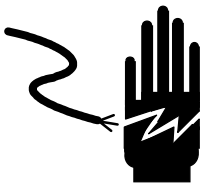
WARNING

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 AND/OR PROPERTY DAMAGE.



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 OR 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.

Change Notice

METTLER TOLEDO® reserves the right to make refinements or changes without notice.

CONTENTS

1 General Description

Introduction

The Model 623 Belt Sealer is designed for use with a Model 706-1001 or 706-1002 Autolabeler and one or two Model 661-1012 Hand Wrap Stations to create a semi-automatic wrapping\labeling system.

Wrapped packages placed on the Model 623 Belt Sealer are sealed and automatically conveyed on to the Model 706 Autolabeler for weighing and labeling.

Figure 1-1 shows a typical layout with the Model 623 Belt Sealer, a Model 661-1012 Hand Wrap and a Model 706 Autolabeler.

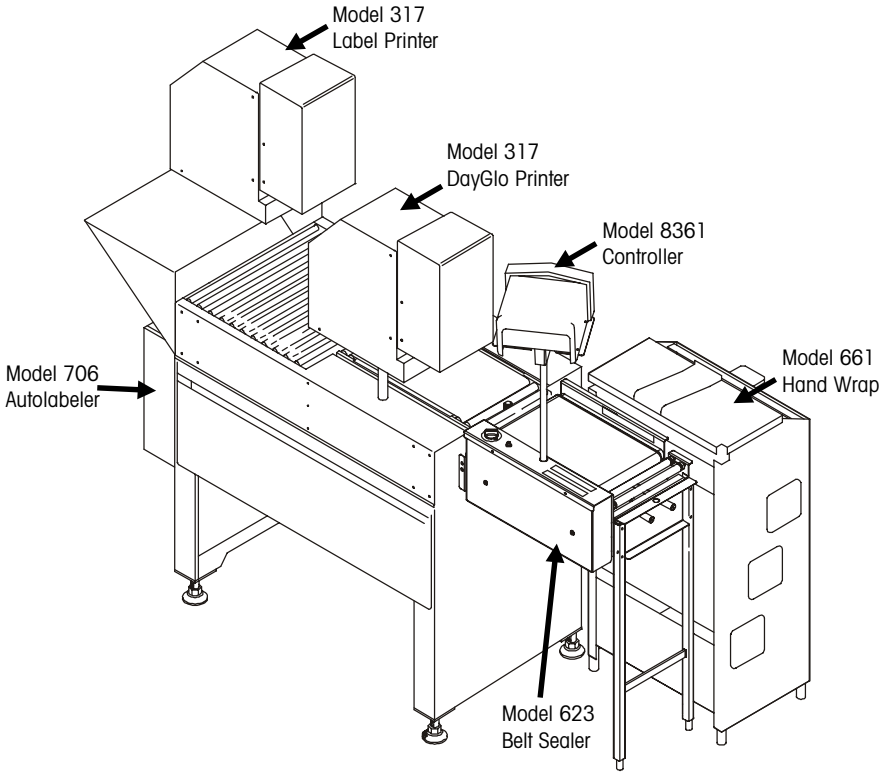
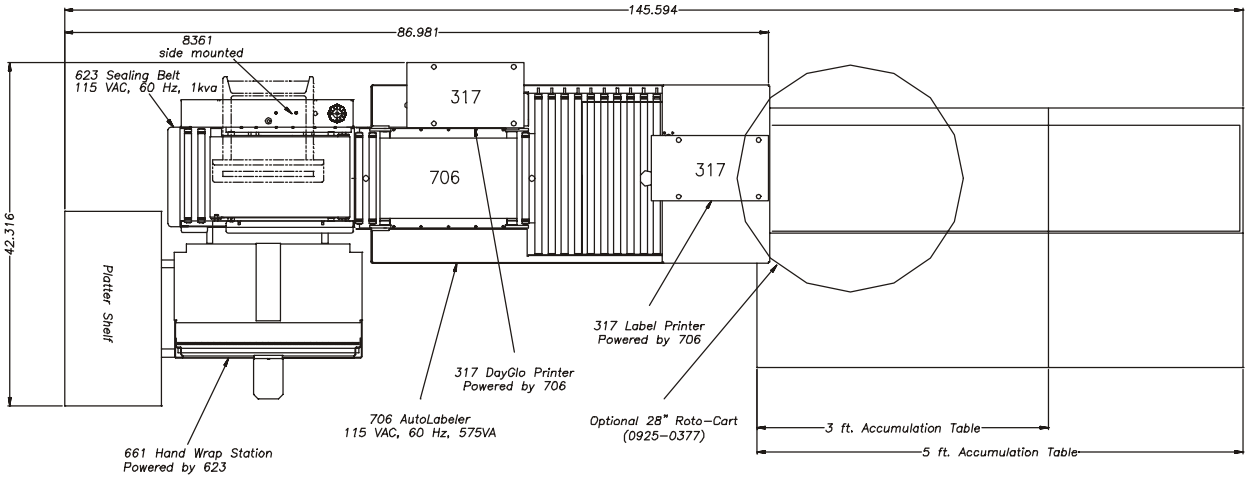


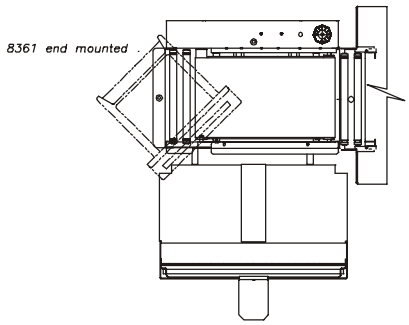
Figure 1-1: Model 623 on Model 706 Autolabeler

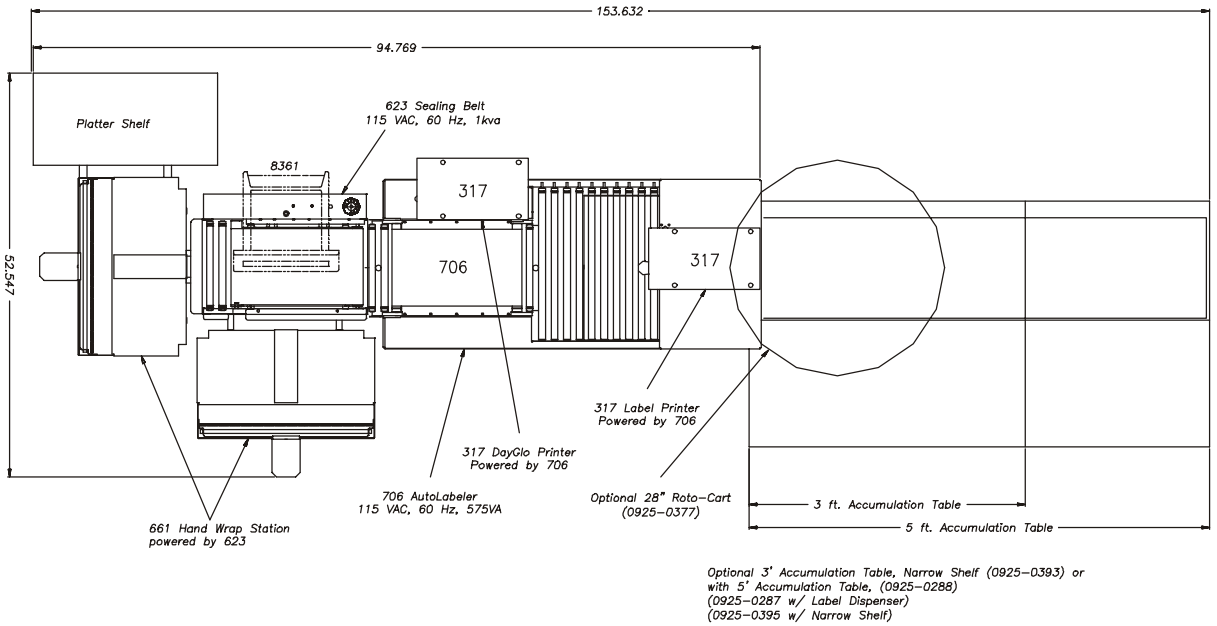
Overview

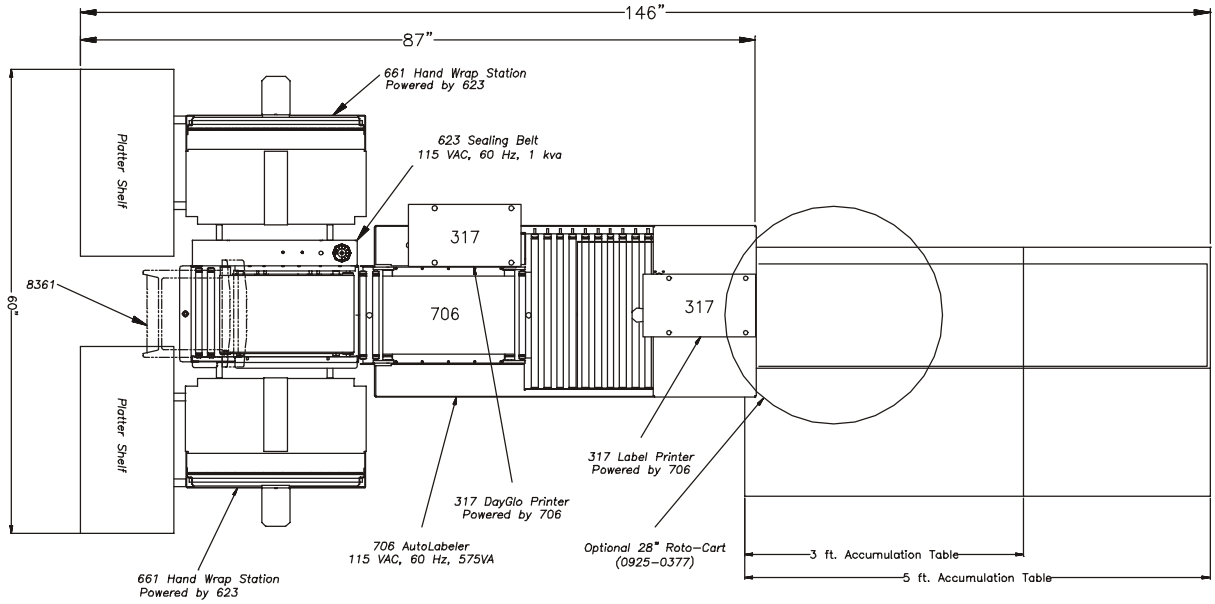
The Model 623 automatically detects a package placed on the belt using a Photoeye. A mechanical dial thermostat controls the sealing belt temperature. Dwell time on the sealing belt is controlled by and adjustable in the Model 706 software. Belt speed is matched to the speed of the Model 706 Autolabeler for smooth transition from sealer to labeler. A Model 8361 scale controller mount is included with two mounting locations for various hand wrap to belt sealer configurations.

Configurations






153.632
94.769
52.547
Platter Shelf
623 Sealing Belt
115 VAC, 60 Hz, 1kva
8361
317
706
317
317 Label Printer
Powered by 706
317 DayGlo Printer
Powered by 706
706 AutoLabeler
115 VAC, 60 Hz, 575VA
Optional 28" Roto-Cart
(0925-0377)
3 ft. Accumulation Table
5 ft. Accumulation Table
661 Hand Wrap Station
powered by 623
Optional 3' Accumulation Table, Narrow Shelf (0925-0393) or
with 5' Accumulation Table, (0925-0288)
(0925-0287 w/ Label Dispenser)
(0925-0395 w/ Narrow Shelf)


146"
87"
60"
661 Hand Wrap Station
Powered by 623
623 Sealing Belt
115 VAC, 60 Hz, 1 kva
Platter Shelf
8361
317
706
317
Platter Shelf
317 Label Printer
Powered by 706
317 DayGlo Printer
Powered by 706
706 AutoLabeler
115 VAC, 60 Hz, 575VA
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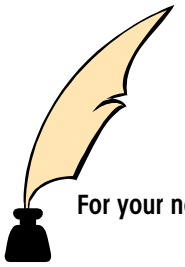
Powered by 623



For your notes

2 Specifications

Factory Numbers

The Factory order number for the Model 623 Belt Sealer is **0623-0001-000.**

Agency Approvals

The Model 623 Belt Sealer is ETL Tested and Approved to the "Standard for Motor-Operated Commercial Food Preparing Machines UL 763, 2nd Edition" and the "Standard for Motor-Operated Food Processing Appliances c22.2 No. 195-M1987".

Environmental Requirements

The Model 623 Belt Sealer 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 shipping and storage temperature range is 0° to +66°C (+32° to +150°F) at 10 to 95% relative humidity, non-condensing.

The Model 623 is designed for use in prepackaging backroom environments. This unit is not intended for wash-down operation, nor for 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.

Product Specifications

Power Requirements

The Model 623 requires 115 VAC, single phase, 50/60 Hz, at 10A nominal to operate. The 623 Belt sealer uses an 800 Watt cast aluminum seal plate.

Physical Construction

The Model 623 is made of brushed stainless steel and aluminum that is highly resistant to corrosion.

Tray Size

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

Major Components Map

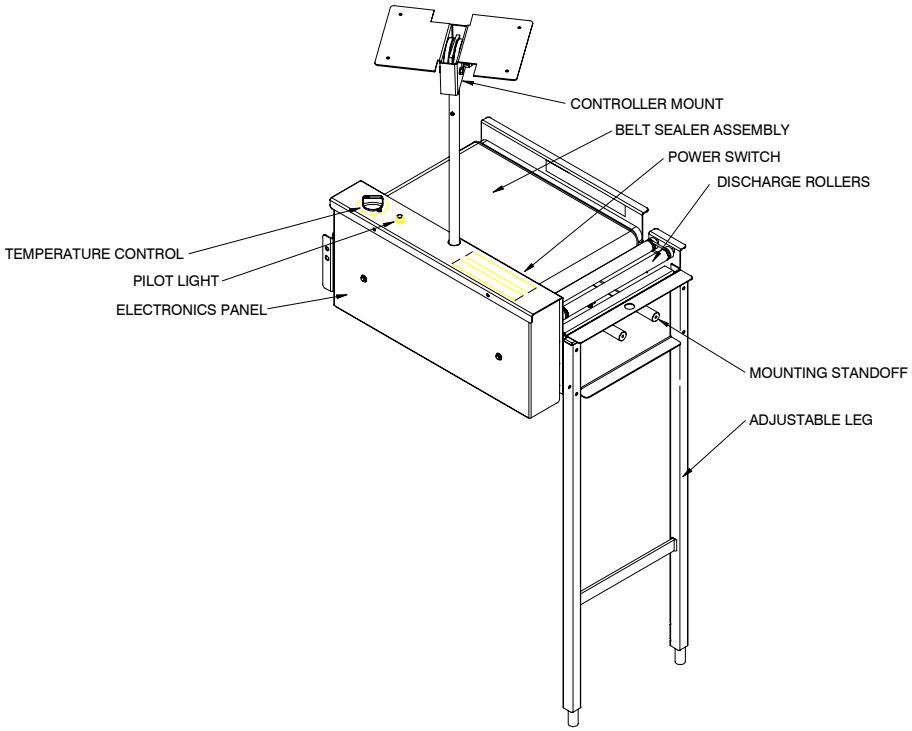


Figure 2-1: Model 623 Components

Dimensions

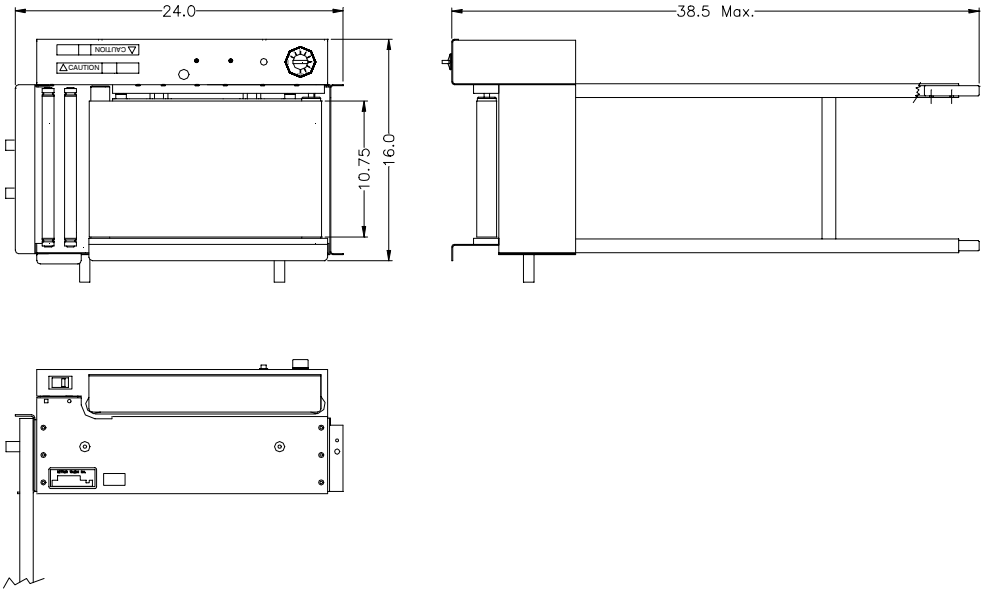


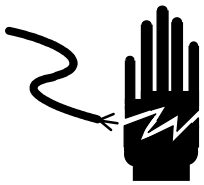
Figure 2-2: Model 623 Dimensions

3 Setup and Operation

Unpacking

Remove the Model 623 from the shipping crate and carefully inspect for any damage. Report any shipping damage to your carrier immediately.

Installation



⚠ 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.

Attach the legs to the infeed end of the Model 623 Belt Sealer (Figure 3-1).

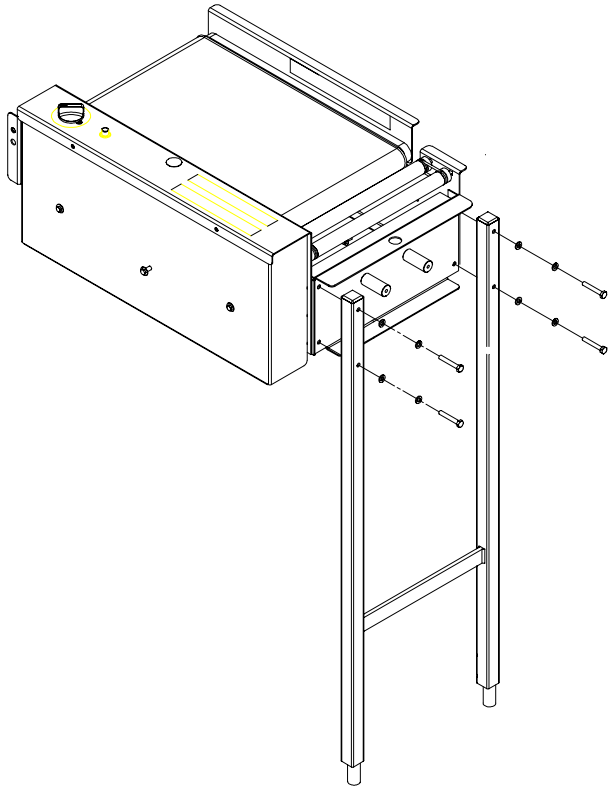


Figure 3-1

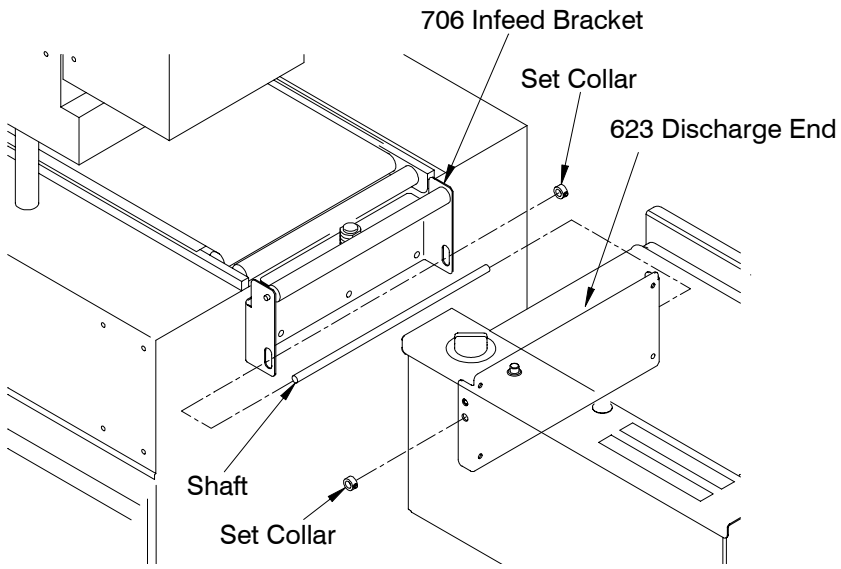


Figure 3-2

Attach the discharge end of the Model 623 Belt Sealer to the infeed bracket of the Model 706 using the shaft and set collars provided (Figure 3-2).

Adjust the height of the Model 623 Belt Sealer by loosening the two setscrews in each leg and extending the feet.

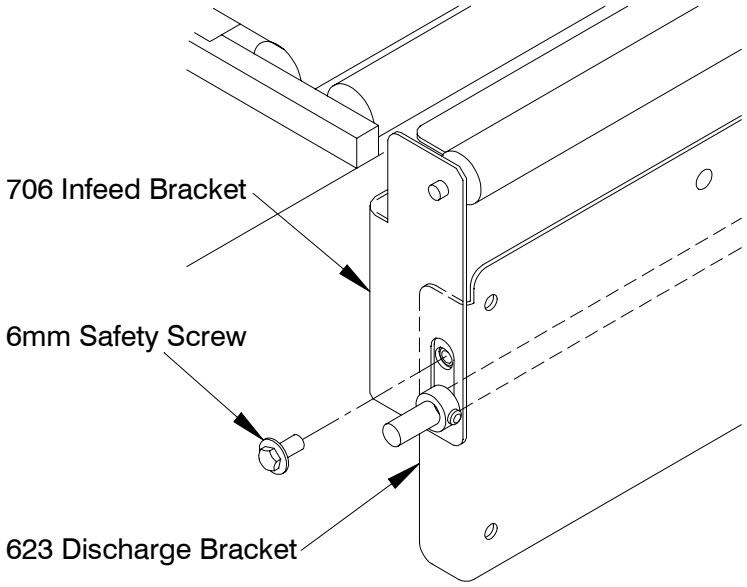


Figure 3-3

Install the 6mm-safety screw through the infeed bracket of the Model 706 and into the discharge bracket of the Model 623 Belt Sealer (Figure 3-3).

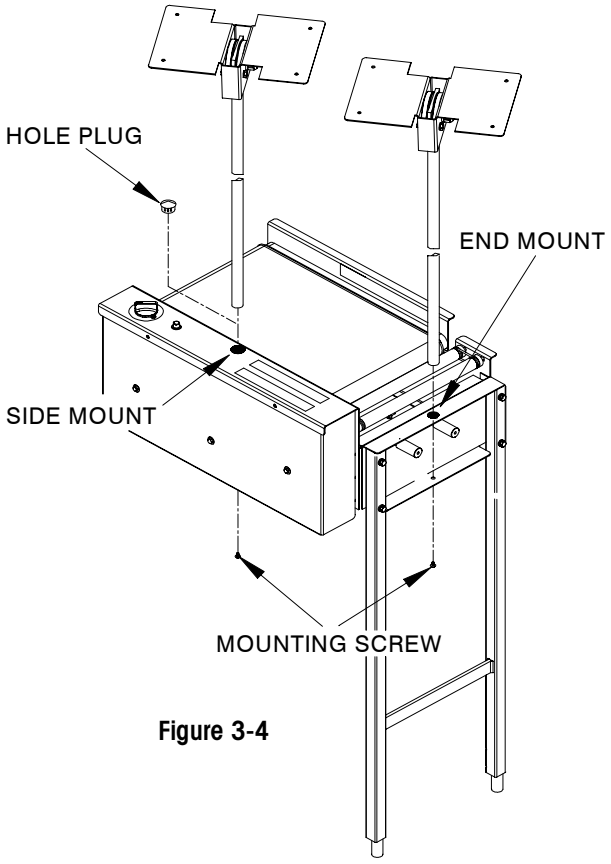


Figure 3-4

Install the scale controller mount in the preferred location (end or side). See Figure 3-4.

Route the belt sealer to autolabeler interface cable through the infeed end panel of the Model 706 and into the back of the Model 706 control box.

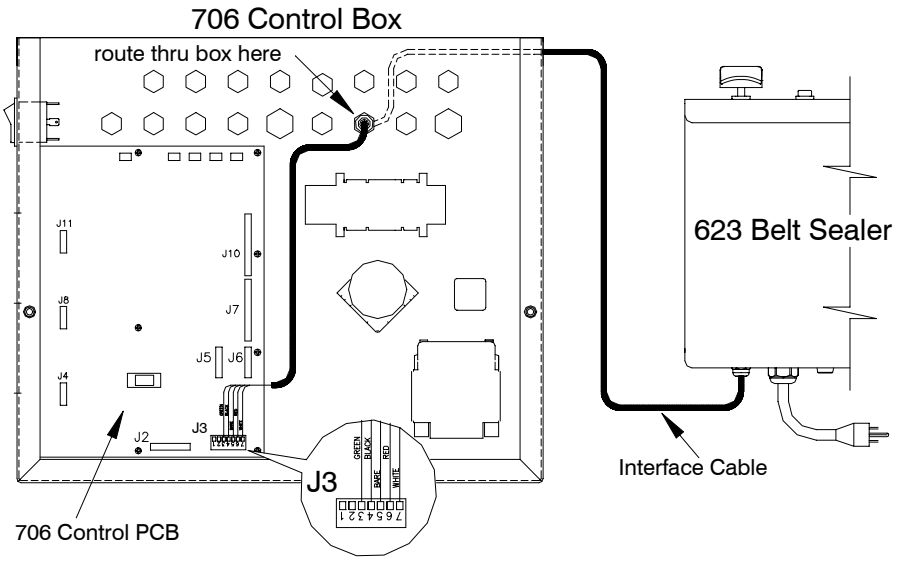


Figure 3-5

Wire the interface cable as shown in figure 3-5.

Attach the 661-1012 hand wraps in the selected locations using the standoffs provided.

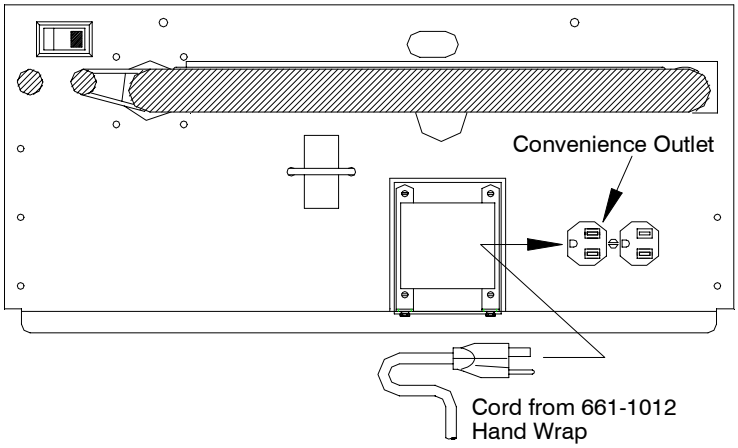


Figure 3-6

Plug the 661-1012 hand wraps into the convenience outlet located on the underside of the Model 623-belt sealer (Figure 3-6).

Power Up

Power up the Hand Wraps, Autolabeler and Scale Controller by turning on the power switch for each individual unit. Power up the Model 623 Belt Sealer by pressing the power switch to the on position (Figure 3-7).

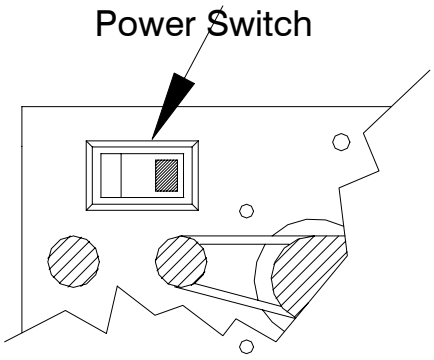


Figure 3-7

Dip Switch Setup

A bank of eight Dipswitches is located on the Model 623 control board. Dip switches 1 through 4 set the address of the control board for communications with the Model 706. The proper address setting is Dipswitch 1 on and Dipswitch 2 through 4 off. These switches must be set prior to powering up the Model 623. Dipswitches 5 through 7 are not used and should be off. Dipswitch 8 is used for test purposes (See the Troubleshooting section). In normal operation this switch must be off.

Softswitch Setup

Two softswitches in the Model 706 Autolabeler control the operation of the sealing belt.

- **F_30** When set to 000 communication between the Model 706 Autolabeler and the Model 623 Belt Sealer is disabled. When set to 001 communication between the Model 706 Autolabeler and the Model 623 Belt Sealer is enabled. In this setting only one pusher is used for each label application. When set to 002 communication between the Model 706 Autolabeler and the Model 623 Belt Sealer is enabled. In this setting both pushers are used for each label application.
- **F_31** Sets the dwell time that the package remains on the sealing belt. The range is 000 (No dwell time) – 255 (2.5 seconds dwell time) with each step being 10 milliseconds.

Sealing plate

A dial thermostat located on the top of the Model 623 Belt Sealer rear panel (Figure 3-8) controls the sealing plate temperature. The range is Low (140°F) to High (350°F). The recommended setting is 6 (260°).

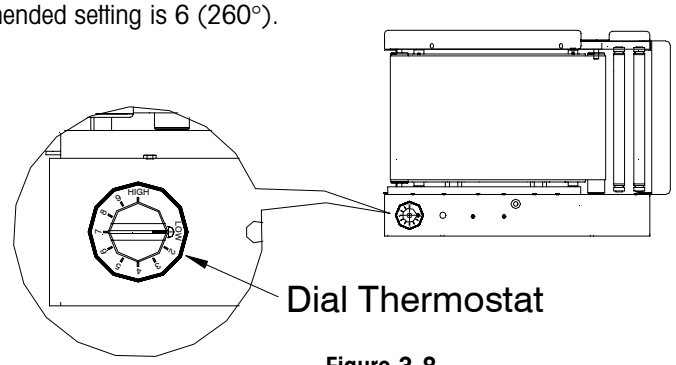


Figure 3-8

Photoeye Positioning

The Photoeye can be positioned to detect a package from center to 25°. Position the photoeye to detect packages based upon where the operators place the packages. For example, if the hand wrap is mounted at the end of the belt sealer, the photoeye should be angled that way. See Figure 3-9.

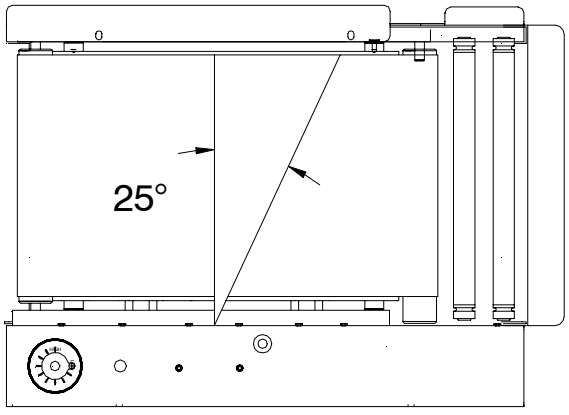


Figure 3-9

Operation

The Model 706 Autolabeler continuously communicates with the Model 623 Belt Sealer as indicated by the left LED display on the Model 706 control board scrolling a figure 8 pattern. The Model 706 queries the Model 623 for status of the photoeye input. When the photoeye on the Model 623 Belt Sealer is blocked, the Model 706 delays for a time between 0 and 2.5 seconds. This delay time is determined by softswitch setting F_31 in the Model 706 Autolabeler. After the delay and if, the scale conveyor is ready to accept a package, the Model 706 commands the Model 623 to run. The Model 623 Belt Sealer conveyor will run until the infeed photoeye on the Model 706 Autolabeler is blocked and cleared. If this does not occur within 2 seconds, the conveyor will stop.

If the Model 8361 Scale Controller is switched to the manual mode, the Model 623 Belt Sealer will not run.

The sealing plate operates directly off line voltage from the main power switch. The sealing plate is controlled by the dial thermostat and operates independently from the electronic controls in the Model 623.

⚠ WARNING

TURN THE POWER SWITCH TO THE OFF POSITION WHEN THE EQUIPMENT WILL BE LEFT UNATTENDED FOR EXTENDED PERIODS OF TIME.

4 General Maintenance, Cleaning, and Lubrication

Disconnecting Power

Before cleaning or servicing the Model 623, 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.

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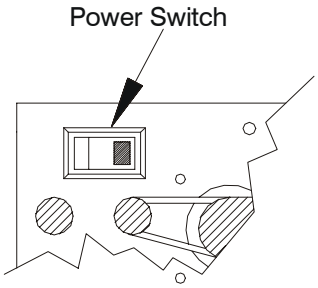
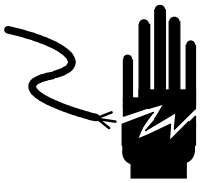


Press the Power Switch to OFF, and then disconnect the Power Cord from the AC outlet.

Figure 4-1: Disconnect Power before Servicing

Changing the Sealing Belt



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Before servicing the Model 623, set the Power Switch to OFF and unplug the AC line cord from the outlet.

Remove the front package guide (Figure 4-2).

Remove the sealing belt front frame member. Be careful not to lose the belt tensioning spring as it is under pressure and it will spring out from the end of the frame (Figure 4-2).

Remove the sealing belt.

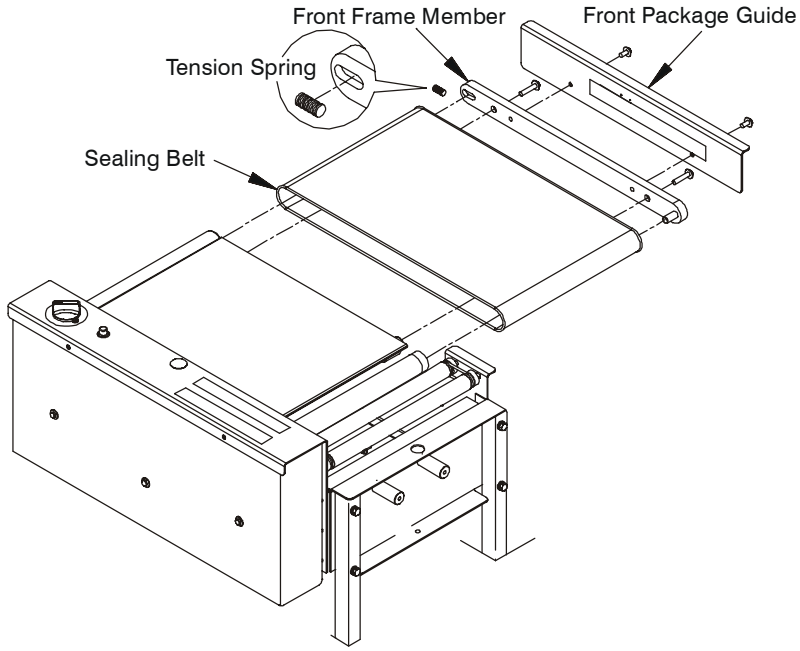


Figure 4-2

Install the sealing belt. Note: The arrows printed on the belt must point toward the discharge end of the machine.

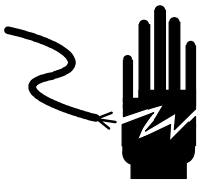
Insert and depress the tension spring in the end of the sealing belt frame.

Install the frame member over the sealing belt roller shafts.

Reinstall the screws holding the frame member in place.

Reinstall the front package guide.

Thermostat Replacement



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Disconnect AC power to the Model 623 by turning the power switch off and disconnecting the AC power cord from the outlet.

Remove the electronics cover.

Remove the sealing belt as described in the previous section.

Loosen the thermostat bulb retaining-clip on the bottom of the sealing plate (Figure 4-3).

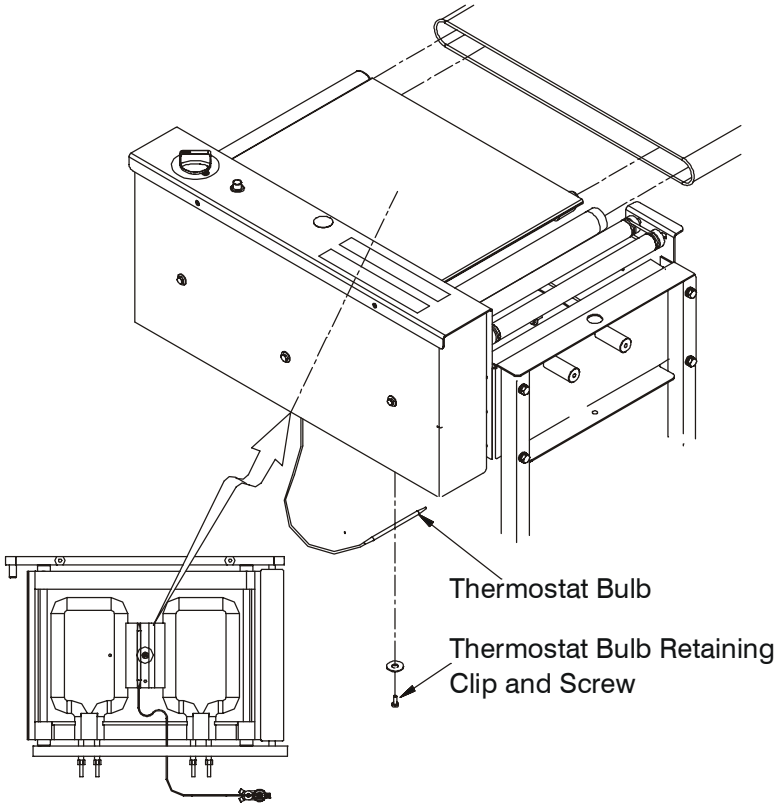


Figure 4-3

Remove the control knob from the thermostat.

Disconnect the two wires from the thermostat.

Remove the thermostat control mounting screw and remove the thermostat (Figure 4-4). Note: Retain the aluminum shim from on the top of the thermostat control.

Place the aluminum shim on the new thermostat and install in reverse order. Note: When installing the control knob make sure that the setscrews align with the flat on the control shaft.

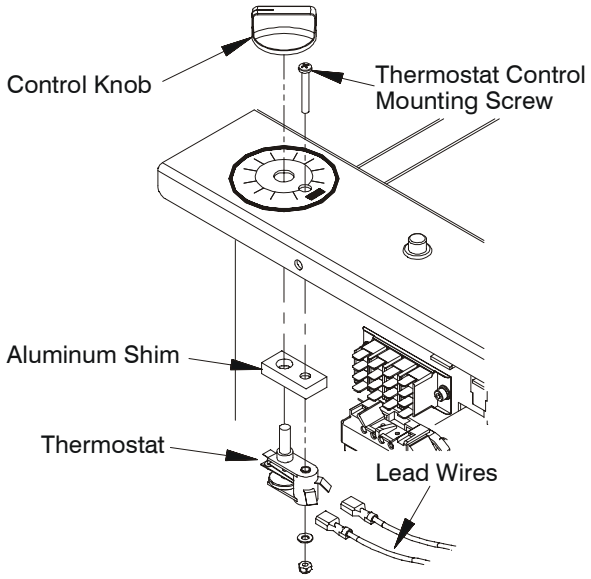
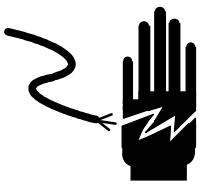


Figure 4-4

Stepper Motor Replacement



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Disconnect AC power to the Model 623 by turning the power switch off, then disconnecting the AC power cord from the outlet.

Remove the electronics cover.

Loosen the two setscrews on the sealing belt drive roller.

Remove the motor wires from the J4 connector.

Remove the motor mounting nuts.

Remove and replace the stepper motor.

Position the sealing belt drive roller on the motor shaft so the end of the hub is flush with the protruding flange of the motor mount (Figure 4-6).

Tighten the setscrews making sure that one of the setscrews is aligned with the flat on the motor shaft (Figure 4-6).

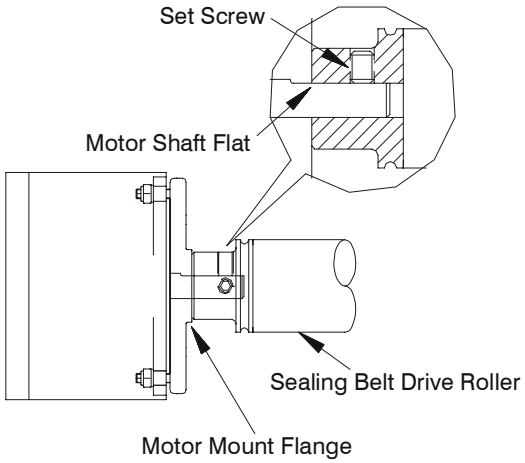
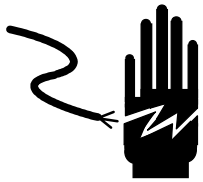


Figure 4-6

Terminate the motor wires in the J4 connector as follows:

- Black to pin 1
- Orange to pin 2
- Red to pin 3
- Yellow to pin 4

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 623 by turning the power switch off, then disconnecting the AC power cord from the outlet.

Disconnect the Photoeye cable from the J2 connector on terminals 7-8-9.

Remove the photoeye from the bracket.

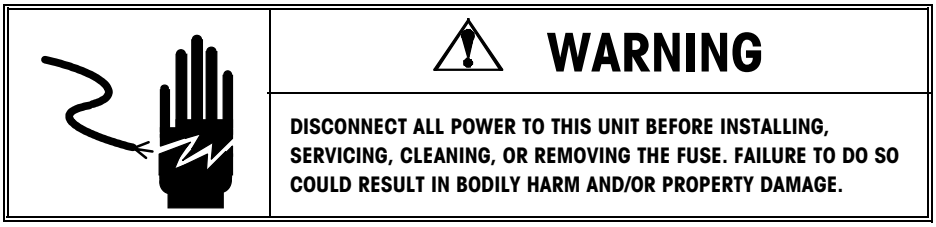
Install the new photoeye in the bracket.

Terminate the wires at the J2 connector as follows:

Brown and Gray Wires to Terminal 7
Black Wire to Terminal 8
Blue Wire to Terminal 9

Power up the Model 623 and adjust the photoeye so the light beam is centered in the reflective strip.

Cleaning

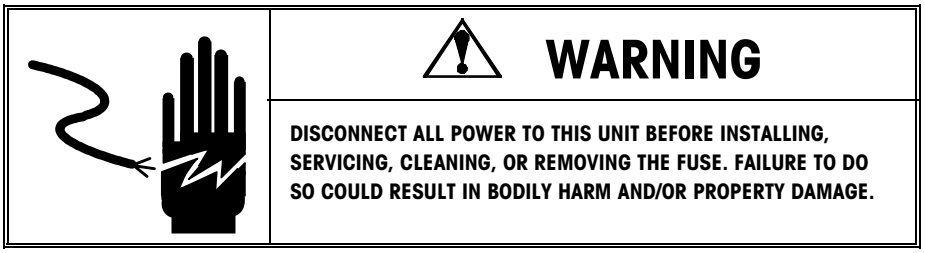


Disconnect AC power to the Model 623 by turning the power switch off, then disconnecting the AC power cord from the outlet. Failure to observe these precautions could result in bodily harm as the machine may operate unexpectedly.

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 sealing belt.

Lubrication

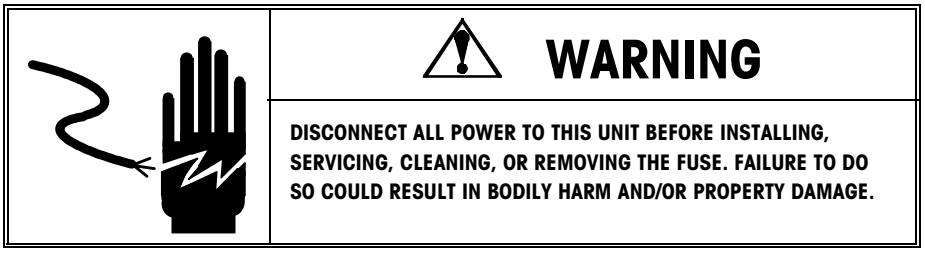
The machine should lubricated at least once a year by a factory-trained technician only.



The Model 623 should lubricated by a factory-trained technician only. Use a light oil (FMO 350) on the following parts:

- Transfer roller bearings (6)

Maintenance



The contacts in the thermostat control should be inspected annually for excessive pitting and corrosion. Replace the thermostat as necessary.

5 Troubleshooting

Sealing Belt will not run

Note: In normal operation with no PLU called up the system operates in convey only mode.

With the Model 623 Belt Sealer powered up, check the status of the two LED's on the Model 623 Control Board. I1 should be blinking on and off at one second intervals. I2 should be on constantly.

Dipswitch #8 performs two functions. When on during power up, the control board enters a factory test mode and will appear to not function. When turned on after power up, it enables a functional test mode. When in this mode, the sealing belt should be running. If it does not run, check the motor and connections at J4 on the Model 623 control board (See Interconnect Diagram). In addition, check the fuse located on the Model 623 Control Board. If there is power to the Control Board and the motor, and the wiring and fuse are OK, replace the board.

If the motor runs in test mode, place dipswitch #8 in the off position. With both the Model 623 Belt Sealer and the Model 706 Autolabeler powered up, check the status of the left LED display on the Model 706 Control Board. It should be scrolling in a figure 8 pattern indicating communication between the Model 623 Belt Sealer and the Model 706 Autolabeler. The following things are required to initiate communication between the Model 623 and the Model 706:

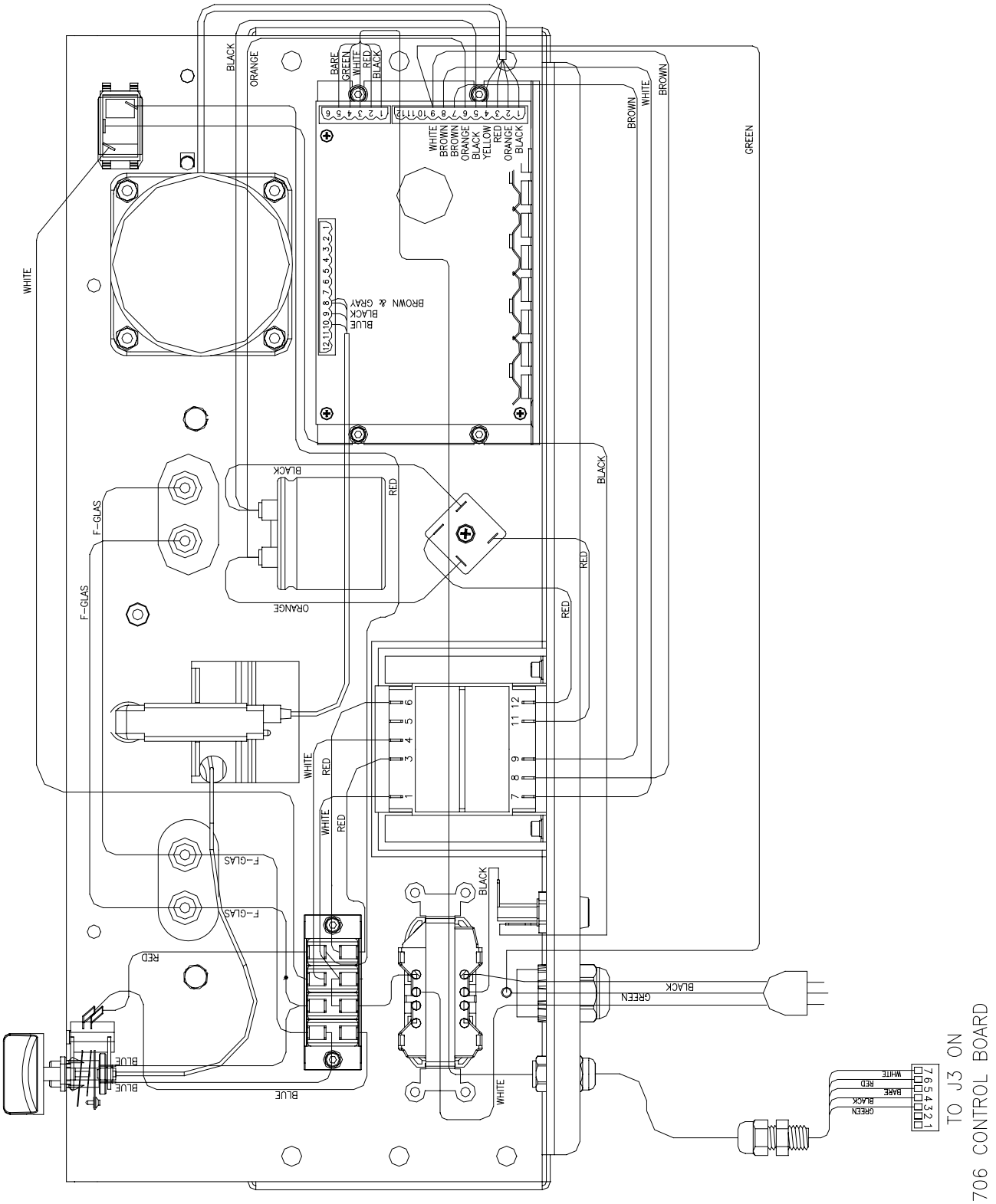
- The interconnect cable must be wired into the wrapper port (J3) of the Model 706 control board (See Interconnect Diagram).
- Dipswitch #1 on the Model 623 Control Board must be in the ON position.
- Jumpers W2 and W3 on the Model 706 control board must be off.
- Softswitch #30 must be set to 001 or 002 on the 706 Control Board.

If there is communication between the Model 623 Belt Sealer and the Model 706 Autolabeler, but the belt will not run, check the operation of the photoeye and the reflective tape. The LED on the bottom of the photoeye should light when the beam is blocked.

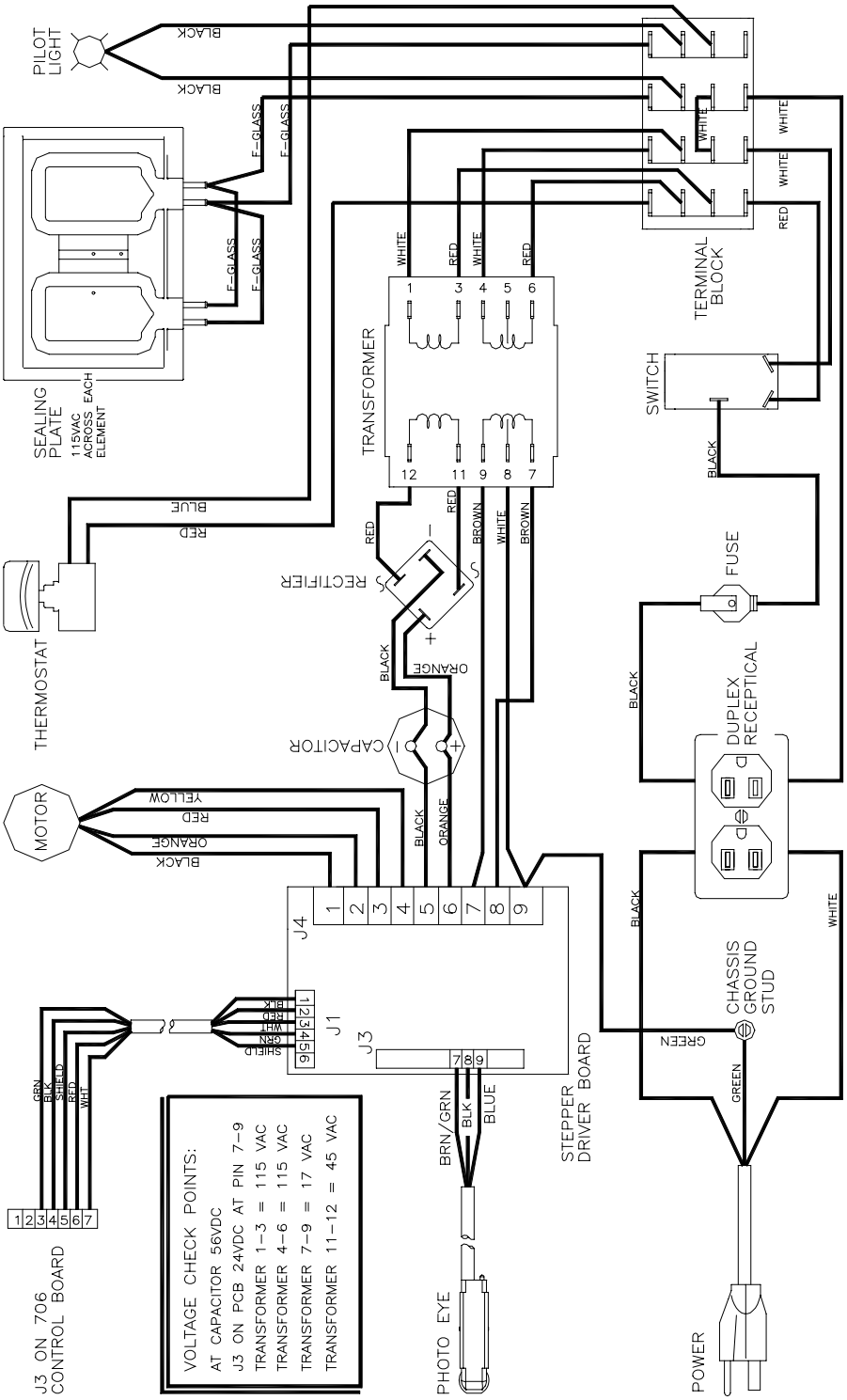
No Heat on Sealing Plate

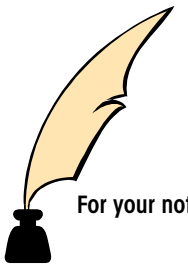
- Is the pilot light on? If not, is the thermostat set correctly?
- Is there continuity through the thermostat?
- Is there continuity through the sealing plate elements?
- Check for voltage at the sealing plate terminals.
- Check for voltage on both sides of the thermostat.

Wiring Diagram



Interconnect Diagram





For your notes

6

Replacement Parts

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.

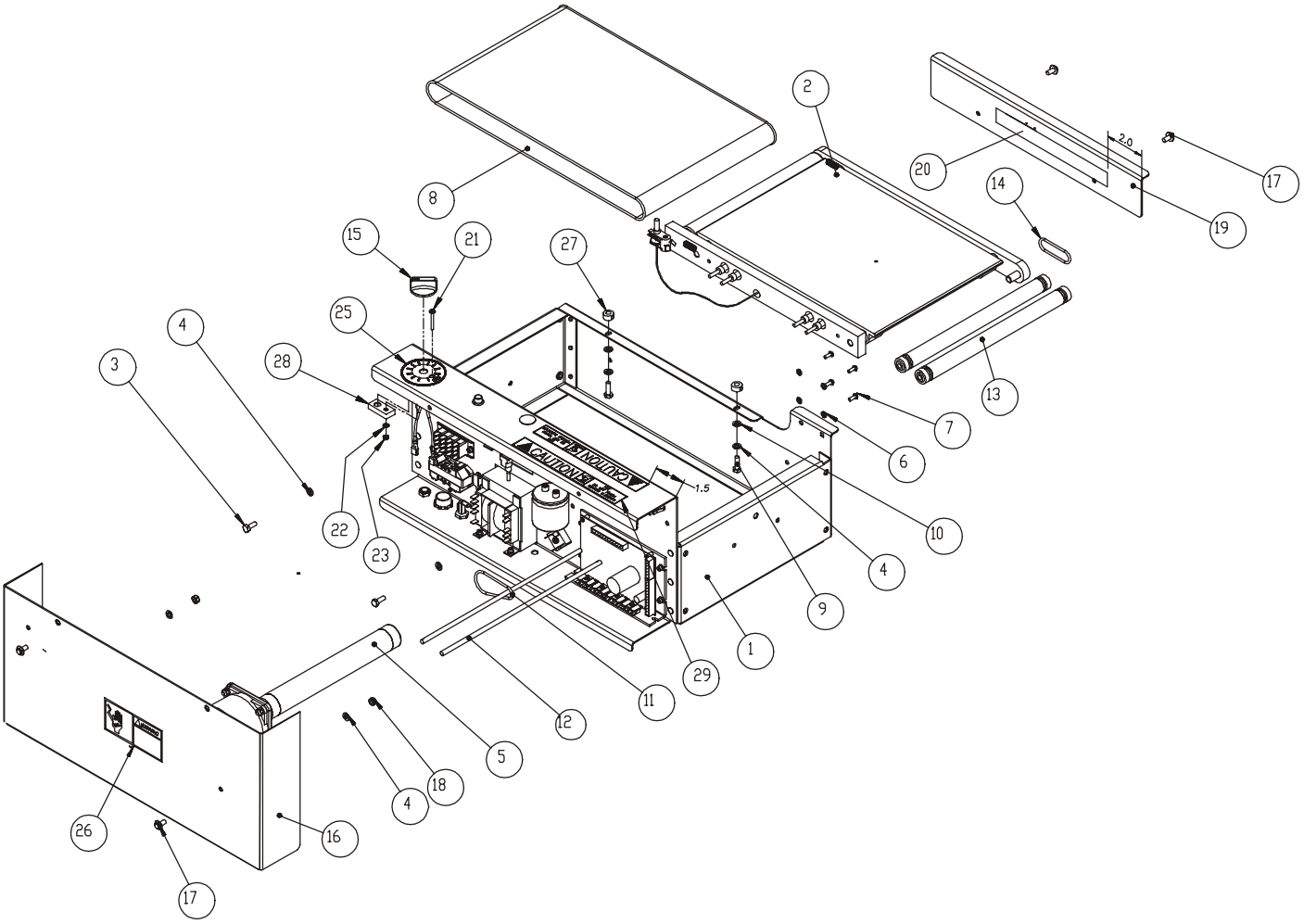
Aftermarket Services:

- 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

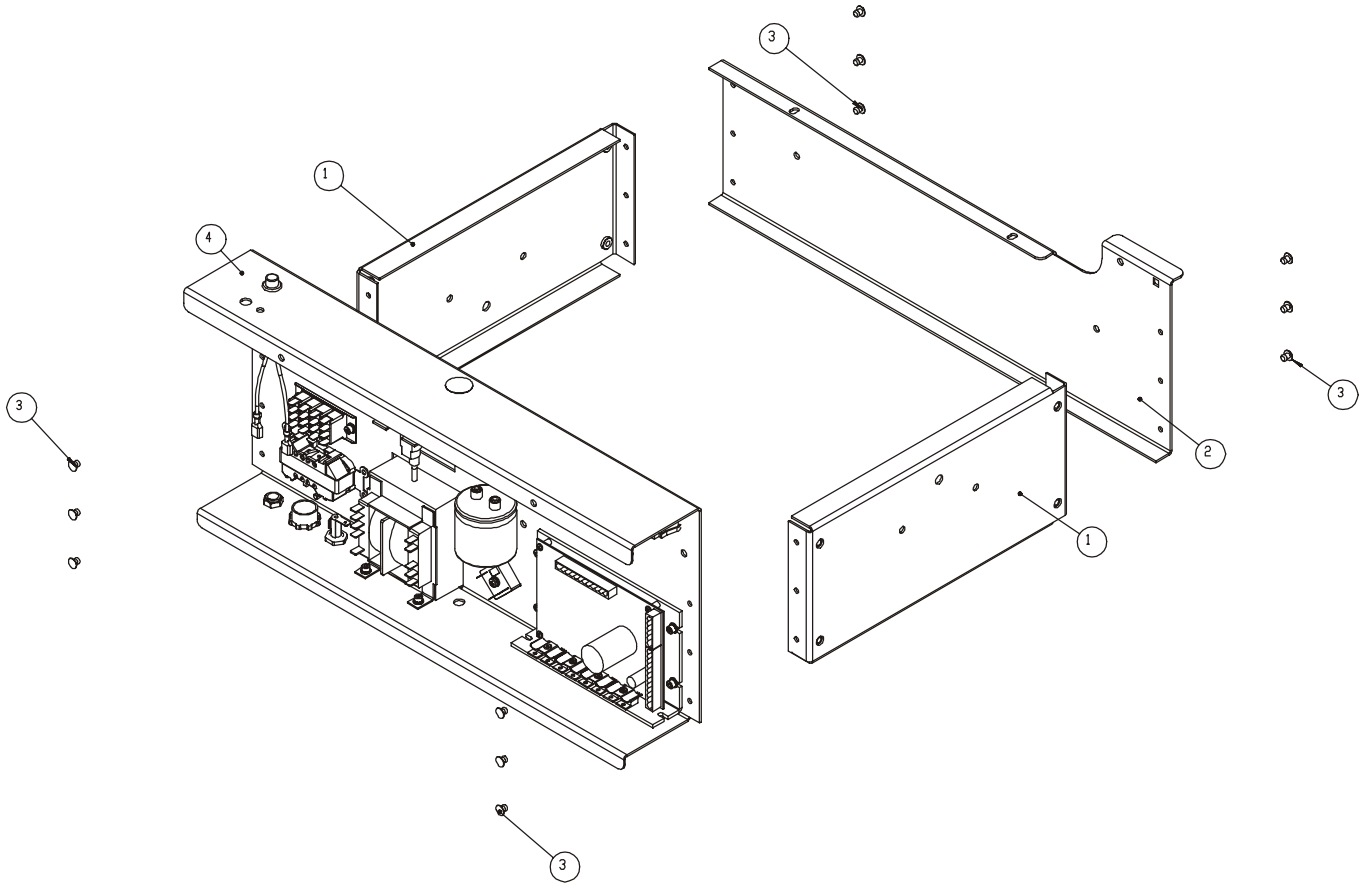
Rental
Tel: (800) 428-4310
Fax: (614) 841-5185
E-mail: rental@mt.com

Belt Sealer Assembly



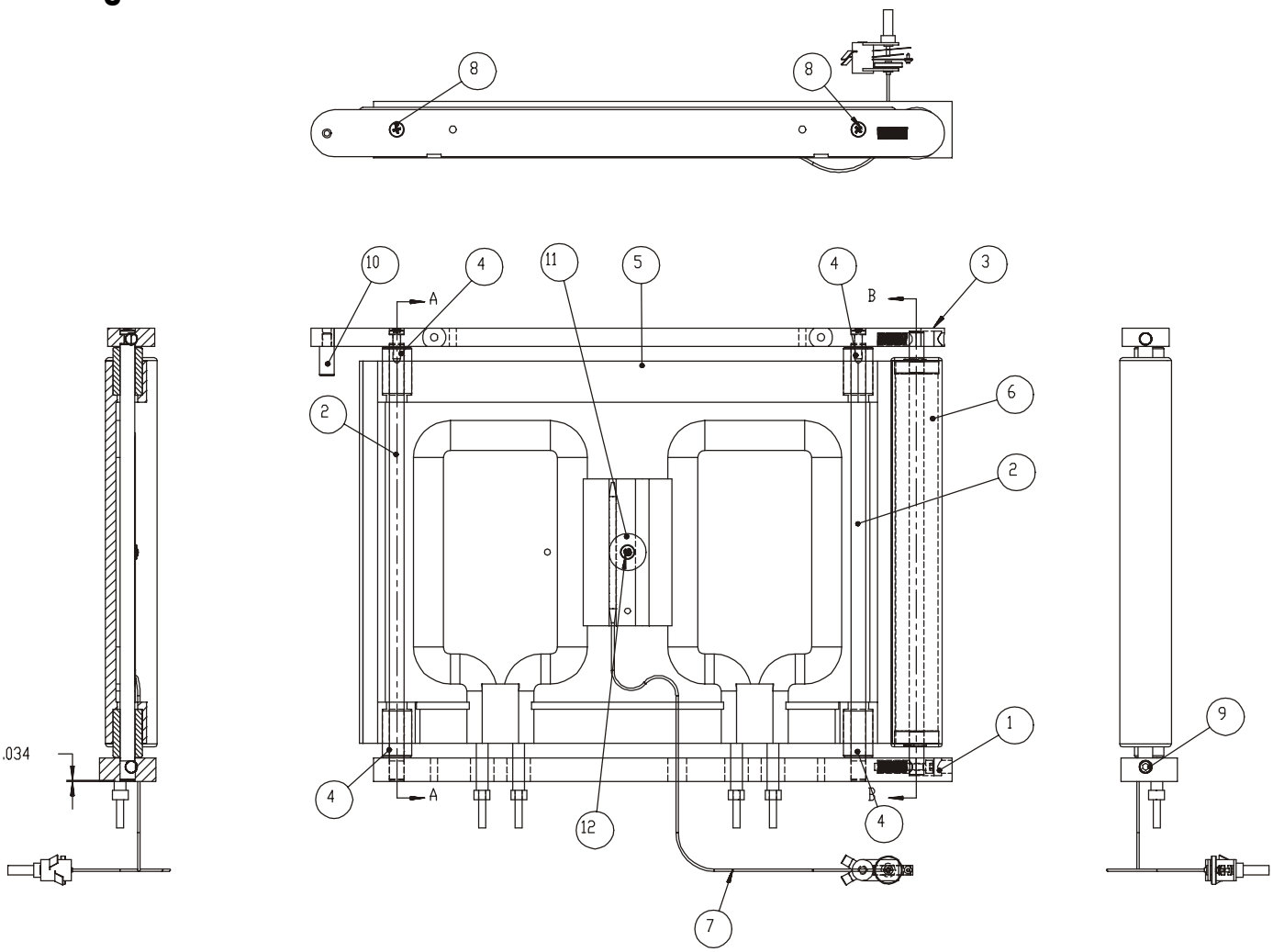
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1		BELT SEALER FRAME ASSEMBLY
2	1		SEALING PLATE ASSEMBLY
3	2	82712400A	HHCS
4	6	82711000A	LOCK WASHER
5	1		SEALING BELT DRIVE ASSEMBLY
6	4	82710900A	LOCK WASHER
7	4	82708500A	CRHCS, SS, DIN 7985-A M5 X 10MM LONG
8	1	82825800A	TEFLON SEALING BELT - XL
9	2	82712500A	HHCS
10	2	82709700A	FLAT WASHER
11	1	83002100A	ROLLER DRIVE BELT - 1/8 X 6.5
12	2	82986200A	ROLLER SHAFT - 12.75
13	2	82998600A	ROLLER ASSEMBLY
14	1	83002200A	ROLLER DRIVE BELT - 1/8 X 5
15	1	83003000A	CONTROL KNOB - 1.5 DIA
16	1	82985500A	ELECTRONICS COVER
17	4	82804900A	HEX WASHER HEAD SCREW
18	2	82708600A	HEX NUT
19	1	82998700A	PACKAGE GUIDE
20	1	83028800A	REFLECTIVE TAPE 8.25" LONG
21	1	83016200A	CRHCS, SS, DIN 7985-A M4 X 40MM LONG
22	1	82709500A	FLAT WASHER
23	1	82709000A	SELF-LOCKING HEX NUT
24	1	83005800A	WIRING ASSEMBLY - 623
25	1	83010600A	DECAL - TEMPERATURE SETTING
26	1	81921300A	DECAL - WARNING DISCONNECT
27	2	81895700A	1/4" ST. ST. SET COLLAR
28	1	83016300A	SHIM PLATE
29	2	12021200A	LABEL CAUTION - HOT

Frame



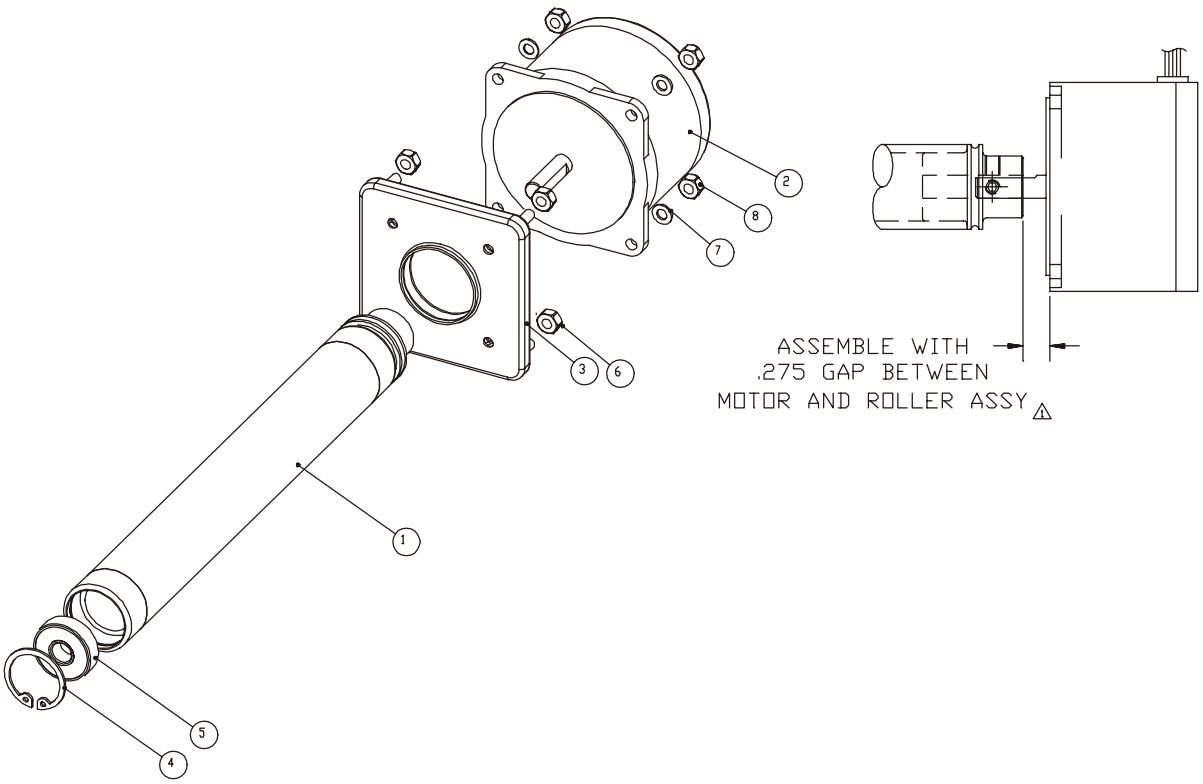
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	2	82985300A	BELT SEALER FRAME PLATE - END
2	1	82985200A	BELT SEALER FRAME - FRONT
3	12	81861100A	POP RIVET- 0.125-0.25 GRIP
4	1		ELECTRONICS ASSEMBLY

Sealing Plate



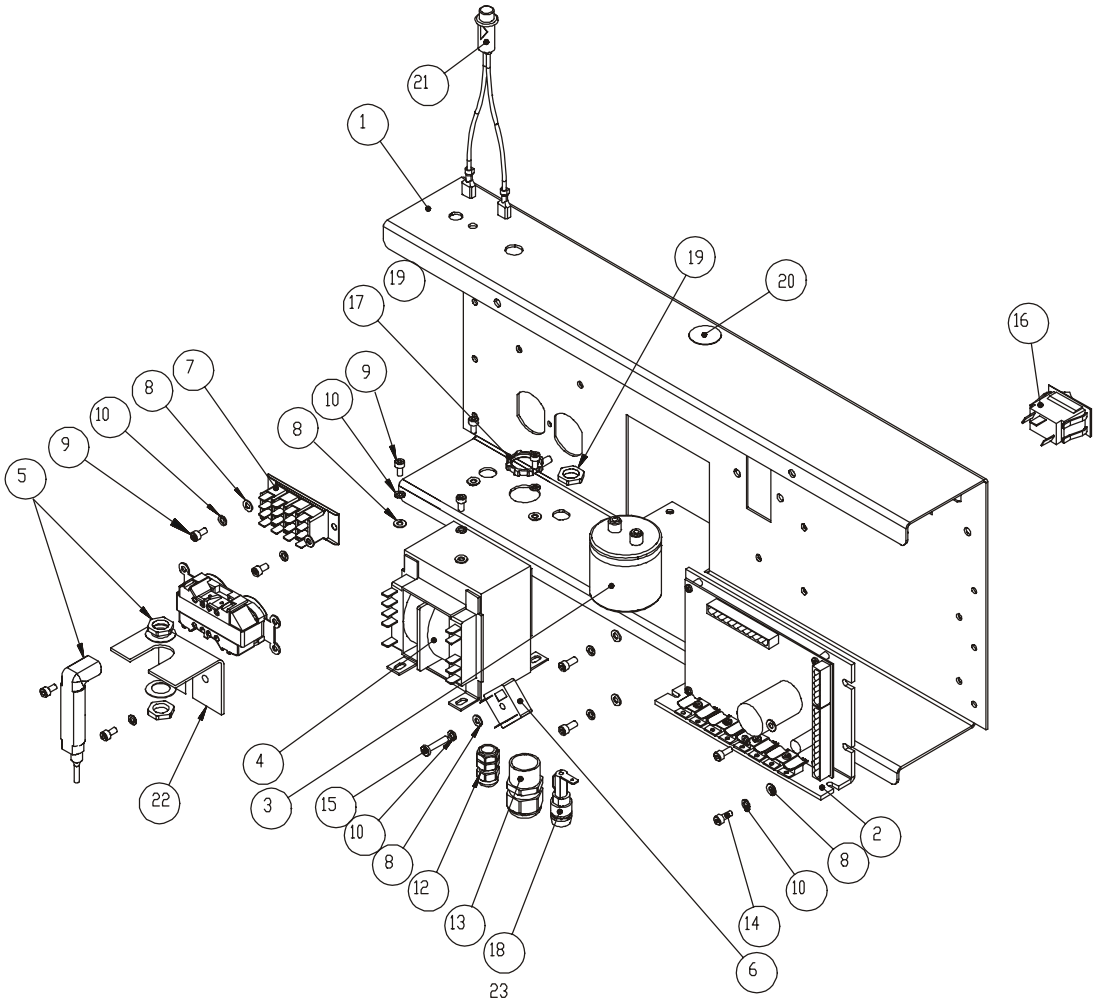
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	82985800A	SEALING BELT REAR FRAME
2	2	82835300A	SEALING BELT BRACE ROD
3	1	82985900A	SEALING BELT FRONT FRAME
4	4	82745400A	HEATING PLATE SUPPORT
5	1	82950700A	SEALING PLATE - XL II
6	1	83003200A	IDLER ROLLER ASSB
7	1	82998800A	THERMOSTAT 100-350°F
8	2	82716100A	CRHCS
9	1	82713900A	SHCS
10	1	82745600A	DRIVE ROLLER SPINDLE
11	1	82910100A	LARGE WASHER
12	1	82715900A	CRHCS
13	2	82744900A	COMPRESSION SPRING - SEALING BELT

Sealing Belt Drive



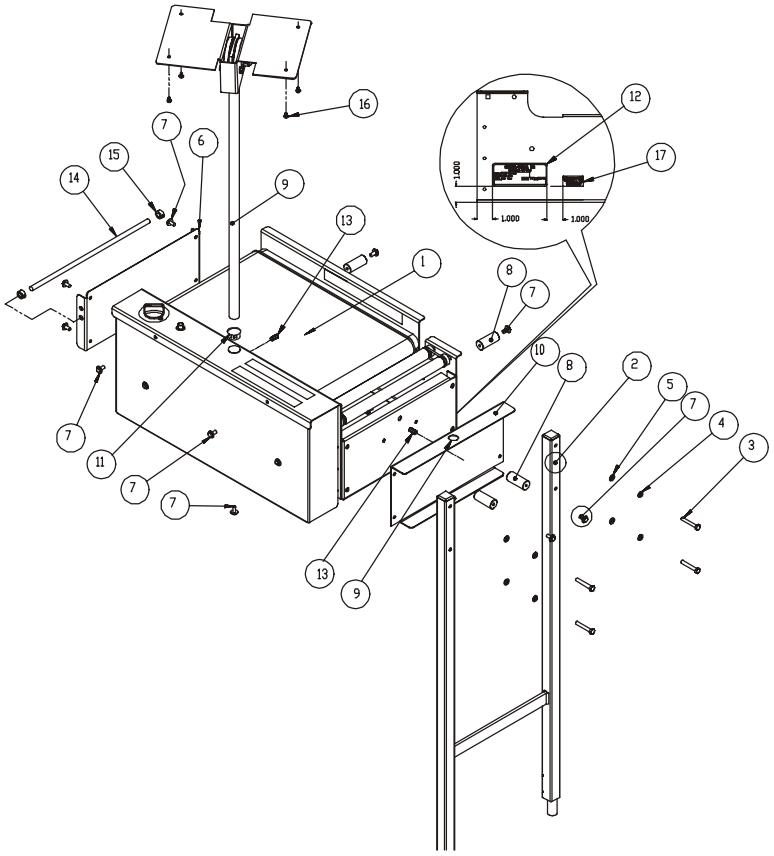
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	82997700A	DRIVE ROLLER ASSEMBLY
2	1	82756600A	STEPPER MOTOR - 1NM, SINGLE SHAFT
3	1	82756300A	ISOLATOR - MOTOR MOUNT
4	1	82707300A	INTERNAL RETAINING RING - 30MM
5	1	82703900A	BALL BEARING
6	4	82708500A	HEX NUT, STAINLESS STEEL M5 (2)
7	4	82709600A	FLAT WASHER
8	4	82709100A	SELF-LOCKING HEX NUT

Electronics Panel



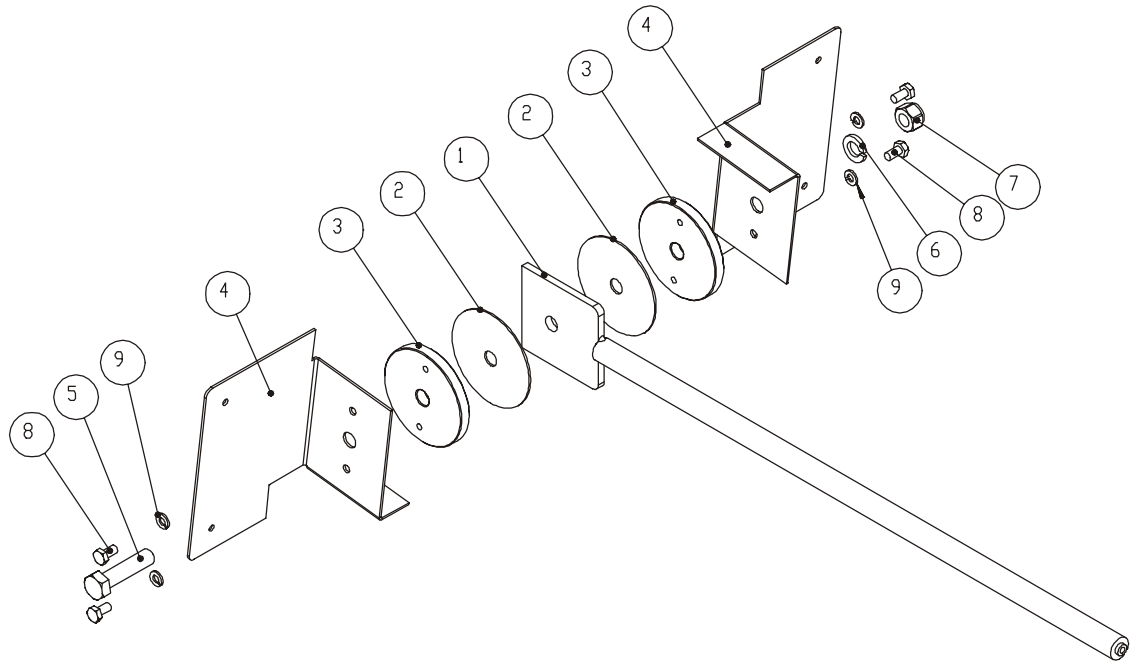
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	82985100A	BELT SEALER FRAME - REAR
2	1	82998200A	STEPPER DRIVER ASSEMBLY
3	1	82806200A	CAPACITOR
4	1	82996200A	TRANSFORMER
5	1	83002800A	RETRO-REFLECTIVE PHOTOEYE
6	1	09394300A	BRIDGE RECTIFIER
7	1	A80887600A	TERMINAL STRIP - 4 TERM / 4 POS
8	11	82709500A	M4 FLAT WASHER, SS
9	6	82713100A	SHCS, SS, DIN 913 M4 X 8MM
10	11	82710800A	M4 LOCK WASHER, SS
11	1	81981200A	DUPLEX RECEPTACLE
12	1	81976100A	CORD GRIP - 1/2" LIQUID TIGHT
13	1	A82474600A	CORD GRIP - 7/8 LIQUID TIGHT
14	4	82713200A	SHCS, SS, DIN 913 M4 X 10MM
15	1	82715600A	M4 X 16 CRHCS
16	1	A82351600A	SWITCH- LIGHTED SPST
17	1	A80077800A	CORD GRIP NUT - 7/8
18	1	82466700A	FUSE HOLDER
19	REF.		FUSE HOLDER - NUT
20	1	83016000A	HOLE PLUG - 0.75"
21	1	83007000A	PILOT LIGHT ASSEMBLY
22	1	83010500A	PHOTOEYE BRACKET
23	1	82995100A	FUSE MDL 9 AMP

Legs and Hardware



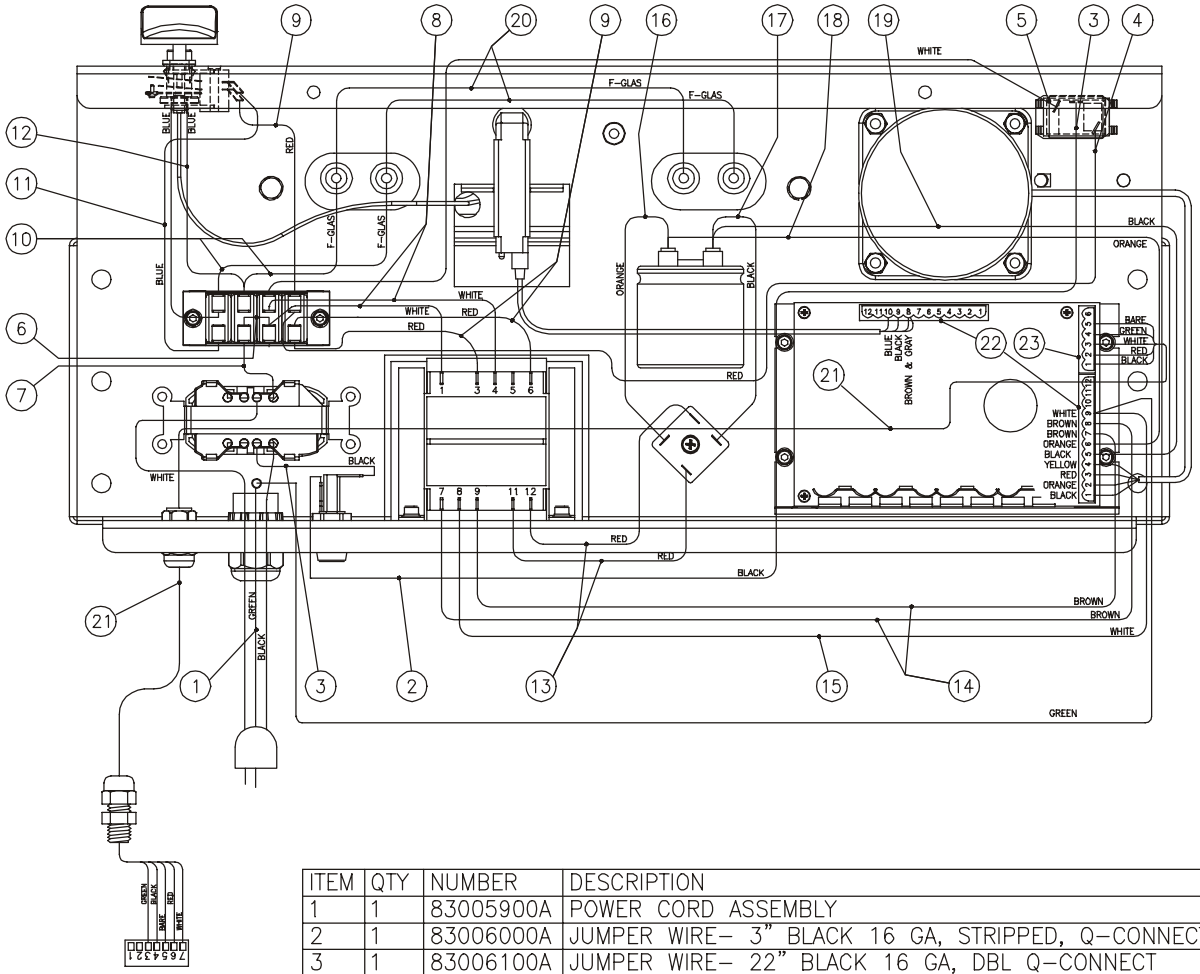
ITEM	QTY.	PART NO.	DESCRIPTION
1	1		BELT SEALER ASSEMBLY
2	1	83003900A	BELT SEALER LEG ASSEMBLY
3	4	82711800A	HHCS
4	4	82711000A	LOCK WASHER
5	4	82709700A	FLAT WASHER
6	1	83001000A	BELT SEALER / 706 MTG. BRACKET
7	15	82804900A	HEX WASHER HEAD SCREW
8	4	83002900A	661 MOUNTING STANDOFF
9	1	83005200A	CONTROLLER MOUNTING POST
10	1	83002400A	AUXILLIARY CONTROLLER MOUNT
11	1	83016000A	HOLE PLUG
12	1	83043000A	SERIAL NUMBER TAG
13	1	83015000A	SET SCREW, SS, DIN 913 M6 X10MM
14	1	82797800A	CONNECTING SIDE BAR
15	2	A80054600A	SET COLLAR 3/8 ID
16	4	82715100A	PHIL PAN HD SCREW, SS, DIN 7985A M4X6MM
17	1	82990600A	LABEL 706/705 ETL

Controller Mounting Post

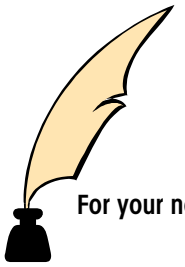


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	82985700A	CONTROLLER MOUNT
2	2	82782000A	BRAKE
3	2	82693900A	PLATE - SWIVEL MOUNTING
4	2	82800000A	CONTROLLER MOUNTING BRACKET
5	1	R0275500A	HHCS
6	1	R0241500A	LOCK WASHER
7	1	R0521500A	SELF-LOCKING HEX NUT
8	4	R0311000A	HHCS
9	4	R0233400A	LOCK WASHER

Wiring



ITEM	QTY	NUMBER	DESCRIPTION
1	1	83005900A	POWER CORD ASSEMBLY
2	1	83006000A	JUMPER WIRE– 3" BLACK 16 GA, STRIPPED, Q–CONNECT
3	1	83006100A	JUMPER WIRE– 22" BLACK 16 GA, DBL Q–CONNECT
4	1	83006200A	JUMPER WIRE– 22" RED 16 GA, DBL Q–CONNECT
5	1	83006300A	JUMPER WIRE– 22" WHITE 18 GA, DBL Q–CONNECT
6	1	83006400A	JUMPER WIRE– 2" WHITE 16 GA, DBL Q–CONNECT
7	1	83006500A	JUMPER WIRE– 3" WHITE 16 GA, STRIPPED, Q–CONNECT
8	2	83006600A	JUMPER WIRE– 9" WHITE 18 GA, DBL Q–CONNECT
9	3	83006700A	JUMPER WIRE– 9" RED 16 GA, DBL Q–CONNECT
10	2	83006800A	JUMPER WIRE– 6" FGLS 12 GA, #10 RING, Q–CONNECT
11	1	83006900A	JUMPER WIRE– 6" BLUE 16 GA, DBL Q–CONNECT
12	REF.	83007000A	PILOT LIGHT ASSEMBLY
13	2	83007100A	JUMPER WIRE– 6" RED 18 GA, DBL Q–CONNECT
14	2	83007200A	JUMPER WIRE– 16" BRN 18 GA, STRIPPED, Q–CONNECT
15	1	83007300A	JUMPER WIRE– 16" WHITE 18 GA, STRIPPED, Q–CONNECT
16	1	82811000A	WIRE ASSEMBLY – ORANGE
17	1	82811100A	WIRE ASSEMBLY – BLACK
18	1	83007400A	JUMPER WIRE– 12" ORG 18 GA, STRIPPED, #6 RING
19	1	83007500A	JUMPER WIRE– 12" BLACK 18 GA, STRIPPED, #6 RING
20	2	82994400A	WIRE ASSEMBLY– 7.75", HIGH TEMP, DBL RING
21	1	83013800A	CABLE 706/623 INTERFACE
22	2	13431600A	12 PT TERMINAL
23	1	82781200A	6 PT TERMINAL
24	1	81976100A	CORD GRIP
25	1	82781200A	7 PT TERMINAL



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

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