

645

SOLO[®] XL

Automatic Wrapper

Parts Catalog

For Series 2XXX

Models:

645-2013

645-2023

645-2033

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Customer Feedback

METTLER TOLEDO

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® SOLO® XL Series 2XXX Service Manual A15722200A 4/01

METTLER TOLEDO

METTLER TOLEDO
1900 Polaris Parkway
Columbus, Ohio 43240

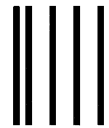
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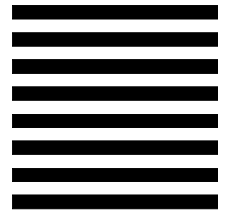
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This Parts Catalog covers servicing the Model 645 SOLO® XL with factory numbers 645-2013, 645-2023, and 645-2033 (Series 2XXX).

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, Inc.
1900 Polaris Parkway
Columbus, Ohio 43240
(614) 438-4511

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 their own expense.

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

PRECAUTIONS

READ this manual BEFORE operating or servicing this equipment.

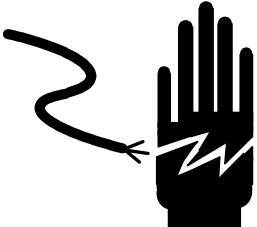
FOLLOW these instructions carefully.

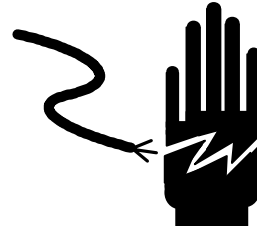
SAVE this manual for future reference.

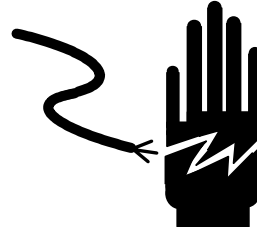
DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

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 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/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.	

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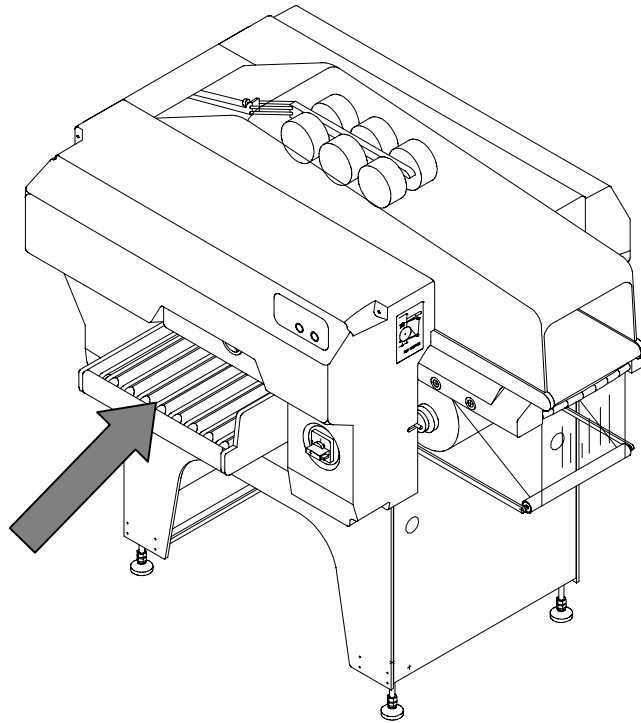
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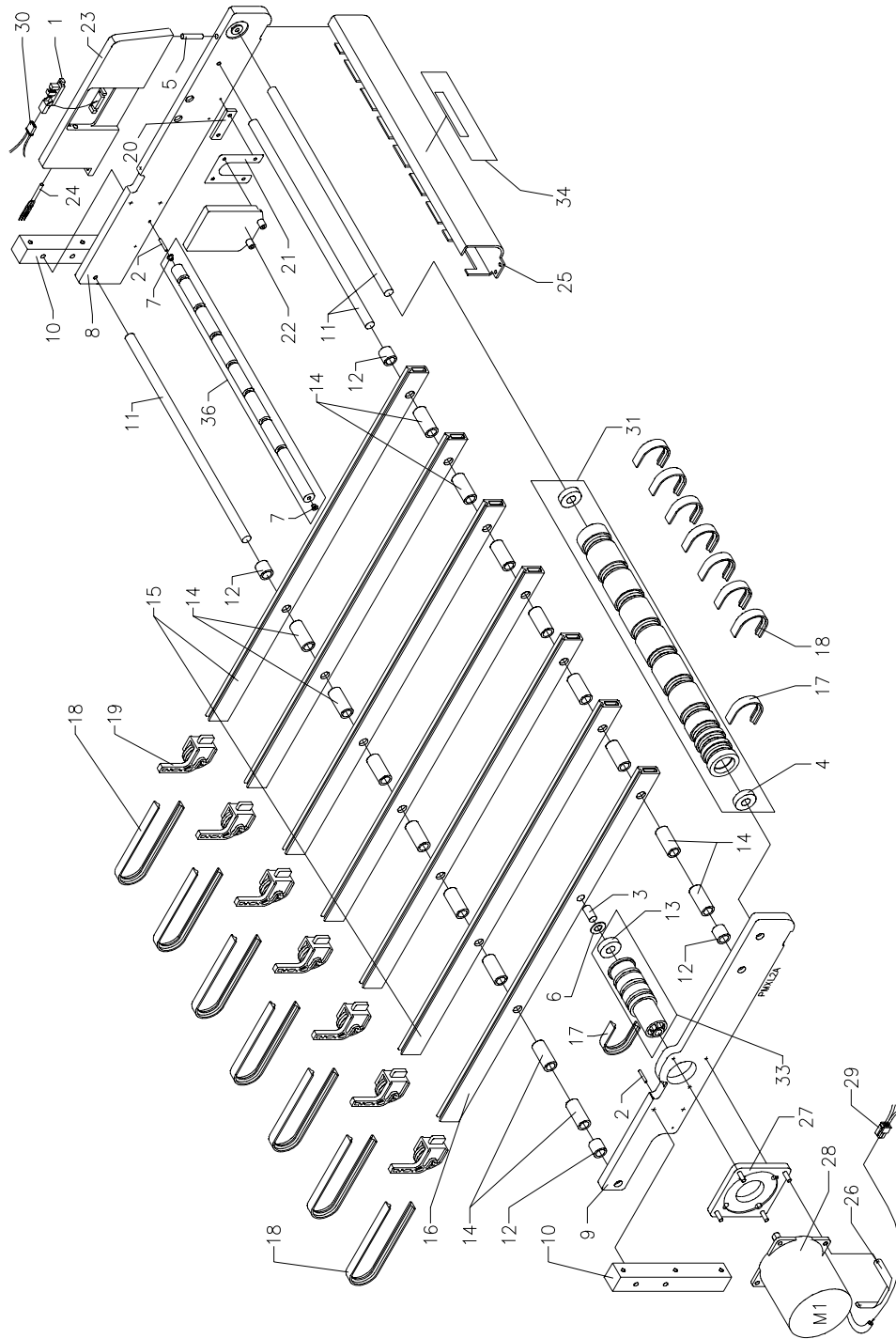
13 **Hardware 13-1**
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1

Infeed



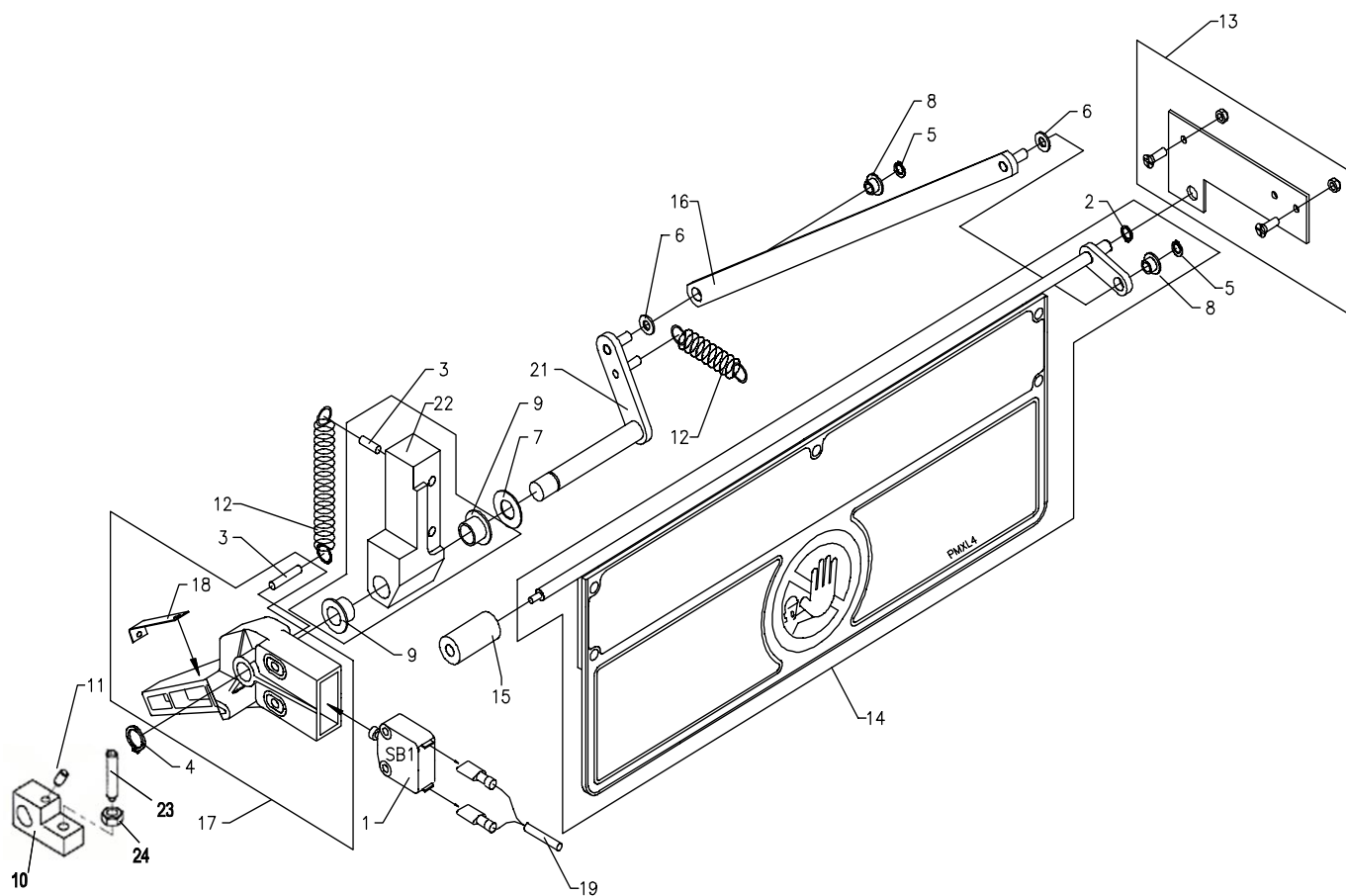
Infeed



Infeed Parts List

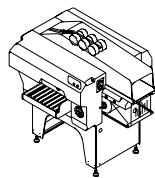
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	PHOTO INTERRUPT SENSOR	82700500A
2	2	DOWEL PIN, 3MM DIA. X 20MM LONG	82702500A
3	1	DOWEL PIN, 10MM DIA. X 20MM LONG	82703700A
4	2	BALL BEARING, 12MM ID X 28MM OD X 8MM	82704600A
5	1	SPIRAL PIN, DIN 1446B-6MM DIA. X 30MM LONG	82705200A
6	1	WASHER, BRASS, 10.5 ID X 20 OD X .8 THICK	82711700A
7	2	IGLIDE FLANGE BEARING, 3MM ID X 4.5MM OD X 5	82721100A
8	1	INFEED FRAME - RIGHT HAND	82984900A
9	1	LEFT SIDE PLATE, ALUM, INFEED	82722600A
10	2	SUPPORT BLOCK, ALUM, INFEED	82722700A
11	3	INFEED CROSS BRACE	82826400A
12	2	INFEED SPACER 12MM ID X 17MM OD X 25MM LONG	82826500A
13	1	BALL BEARING, 10MM ID X 26MM OD X 8MM	82704500A
14	7	DELIN SPACER, 12MM ID X 17MM OD X 38MM	82723100A
15	6	BELT GUIDE - 2 HOLE	82826600A
16	1	BELT GUIDE - 3 HOLE	A82826700A
17	1	BELT, INFEED DRIVE	82723700A
18	7	INFEED TRANSPORT BELT	82826900A
19	7	PULLEY ASSEMBLY	82723900A
20	1	SPRING SPACER, ALUMINUM, INFEED	A82724100A
21	1	START BUTTON SPRING, INFEED	82724200A
22	1	START BUTTON, WHITE DELRIN INFEED	82724300A
23	1	START BUTTON SUPPORT, INFEED	82724400A
24	1	START BUTTON SENSOR CABLE, INFEED	82724500A
25	1	BELT GUARD - INFEED	82827100A
26	1	GROUND STRAP	82742000A
27	1	ISOLATOR - MOTOR MOUNT	82756300A
28	1	STEPPER MOTOR - 3NM	A82765900A
29	1	POWER CABLE CN2	82848300A
30	1	SIGNAL CABLE	82990500A
31	1	DRIVER ROLLER ASSEMBLY - 10 GROOVE	82874500A
32	1	IDLER ROLLER ASSEMBLY - 7 GROOVE	82874600A
33	1	IDLER ROLLER ASSEMBLY - 3 GROOVE	82874700A
34	1	CAUTION - DO NOT LIFT DECAL	82872100A

Infeed Door



Infeed Door Parts List

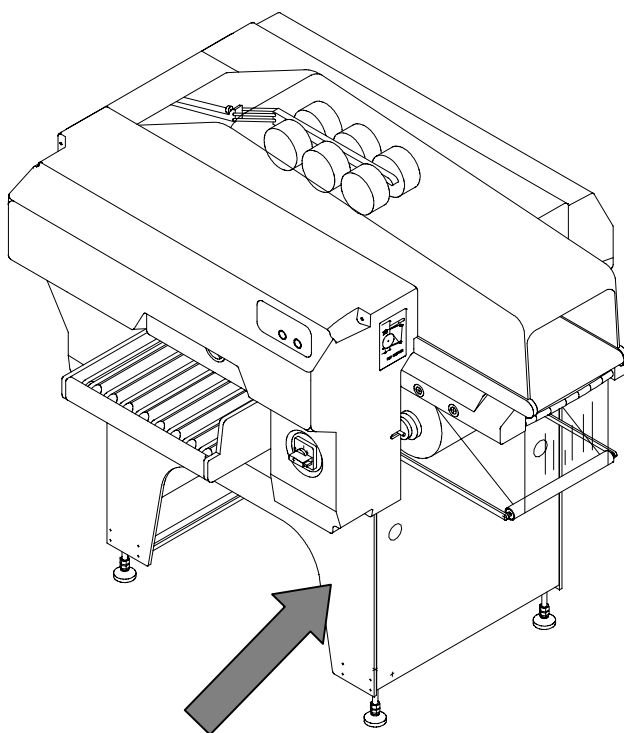
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	MICRO SWITCH	82700600A
2	1	SNAP RING EXTERNAL, DIN 471 6MM I.D.	82706800A
3	2	SPRING HOOK, SIN 1469C 4MM DIA. X 20MM	82706200A
4	1	SNAP RING, EXTERNAL, DIN 471 10MM I.D.	82707000A
5	2	GRIP RING, EXTERNAL, BN 832 5MM I.D.	82707700A
6	2	WASHER, POLYADIME, DIN 125A M5	82710300A
7	1	WASHER BRASS, 10.5MM I.D. X 20MM O.D. X .8MM THICK	82711700A
8	2	IGLIDE FLANGE BEARING, 5MM I.D. X 7MM O.D. X 5MM	82721200A
9	2	IGLIDE FLANGE BEARING, 5MM I.D. X 7MM O.D. X 5MM THICK	82721400A
10	1	DOOR ACTUATOR STOP, INFEED	83144700A
11	1	NYLON TIP SET SCREW	83153800A
12	2	SPRING	82725000A
13	1	KIT OF PARTS, INFEED DOOR PIVOT	82913800A
14	1	DOOR ASSEMBLY - XL	82875200A
15	1	DOOR SPACER	82827600A
16	1	DOOR CONNECTING ROD	82827700A
17	1	DOOR ACTUATOR ASSEMBLY	82862400A
18	1	WEAR STRIP	82765200A
19	1	POWER CABLE CN3	82848200A
20	1	DOOR ACTUATOR PIVOT BLOCK ASSEMBLY	82875000A
21	1	DOOR ACTUATOR SHAFT ASSEMBLY	A82875100A
22	1	DOOR ACTUATOR BEARING BLOCK	82827200A
23	1	FLAT TIP SET SCREW	82717900A
24	1	HEX NUT, SS, M5	82708500A



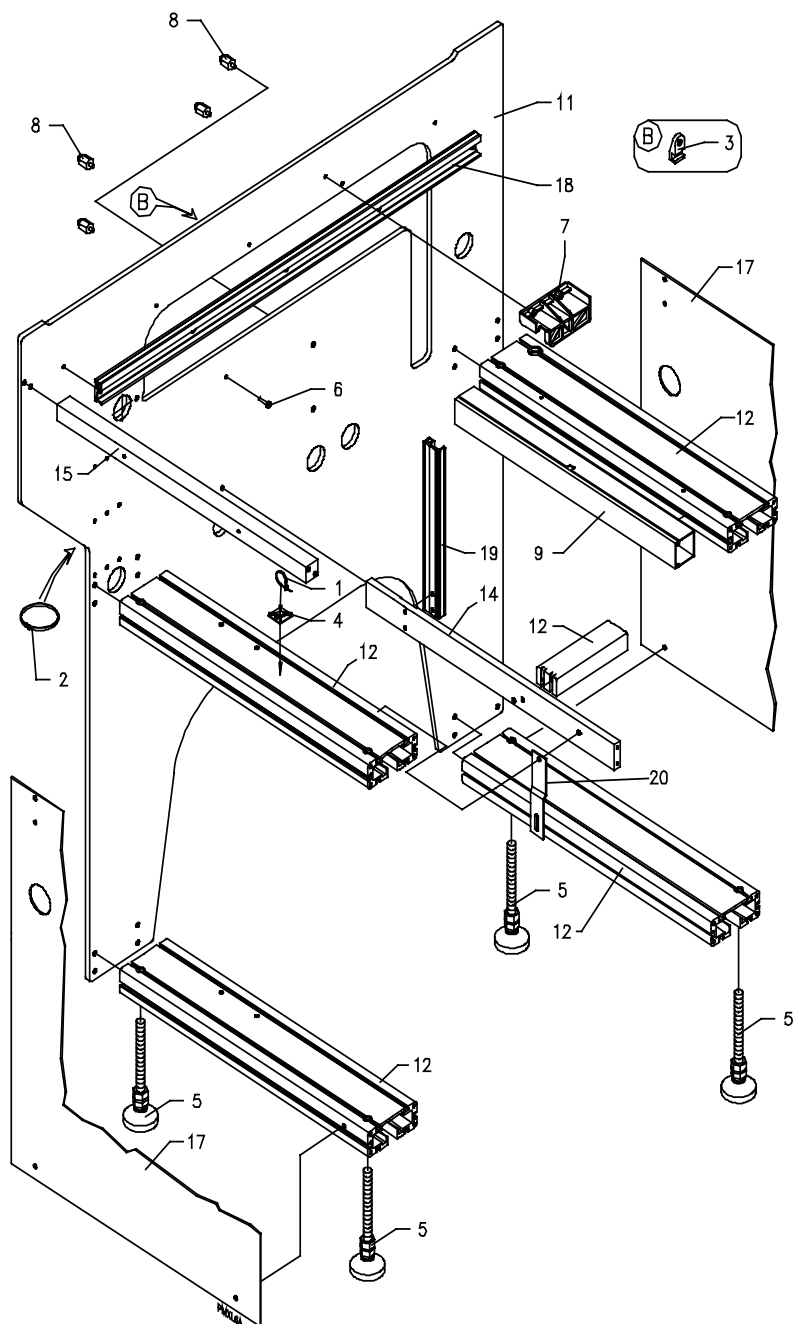
For
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2

Frame



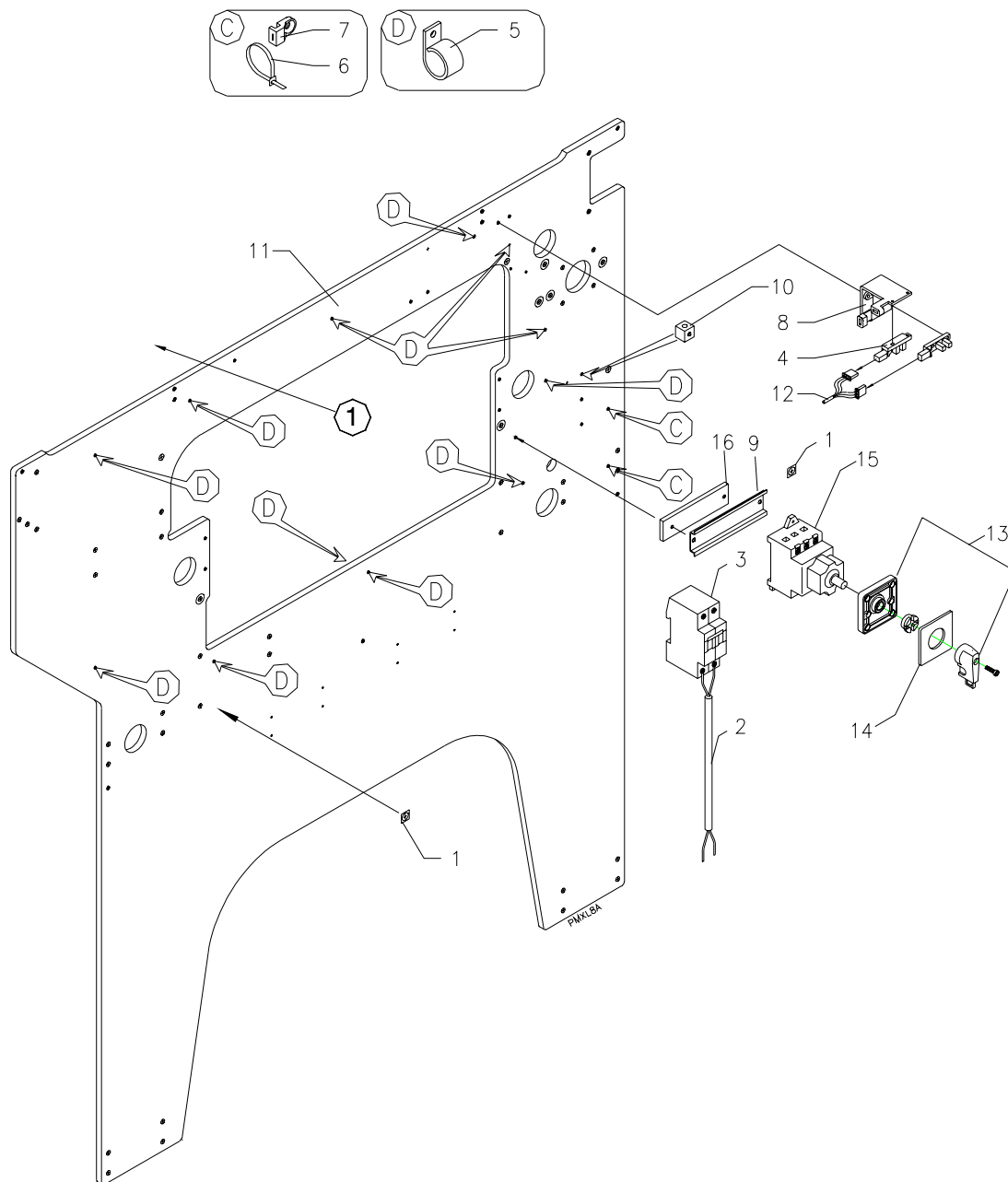
Frame Assembly Rear



Frame Assembly Rear

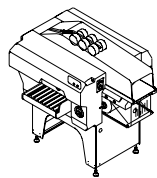
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	CABLE TIE	A80655500A
2	1	TY-WRAP	81253900A
3	1	CABLE CLAMP	82701400A
4	1	TY-WRAP MOUNTING PLATE	A80690800A
5	4	SWIVEL FOOT, 50MM DIA. M12 X 123MM	82721700A
6	24	CRHCS, SS, DIN 7985A - M4 X 25MM	82715700A
7	1	CAM, ECCENTRIC POSITIONING	82734700A
8	4	SUPPORT, ELECTRONIC RACK	82741900A
9	1	CABLE CARRIER, 40 X 40 X 450	82742700A
10	1	STOP - LIFTER RELATCHING	82755700A
11	1	FRAME PLATE - REAR	82991600A
12	4	CROSS BAR	83063100A
14	1	CENTER CROSS BAR	A82828200A
15	1	PRESSURE ROLLER CROSS BAR	82828300A
17	1	PANEL - BASE	83012200A
18	1	CENTER CLAMP GUIDE - NO LIP	A82830800A
19	1	LIFTER GUIDE - NO LIP	A82838600A
20	1	INFEED SUPPORT STRUT	82991100A

Frame Assembly Front



Frame Assembly Front

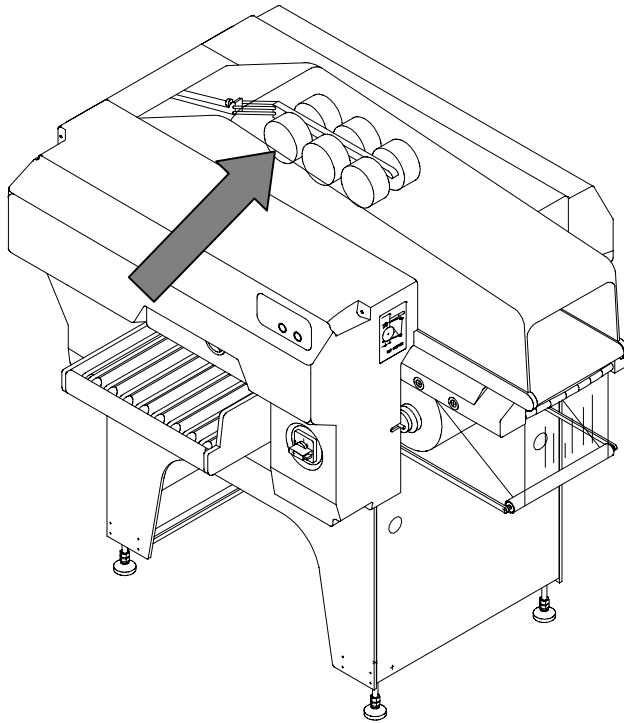
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	GROUND DECAL	82700100A
2	1	LINE CORD	82798800A
3	1	CIRCUIT BREAKER 25 AMP DOUBLE POLE 115 VOLT	82797900A
3A	1	CIRCUIT BREAKER 16 AMP DOUBLE POLE 208/230 VOLT	82798500A
4	2	PHOTO INTERRUPT SENSOR	82700500A
5	10	CABLE CLAMP, 16MM ID	82700900A
6	2	TY-WRAP	81253900A
7	2	CABLE CLAMP	82701400A
8	1	ENCODER SENSOR SUPPORT	82732100A
9	1	DIN RAIL SWITCH	82814800A
10	1	GROUND LUG	82765500A
11	1	FRAME PLATE - FRONT	82991500A
12	1	SIGNAL CABLE	82990500A
13	1	FRAME AND KNOB MAIN POWER SWITCH	82906600A
14	1	LEGEND PLATE - MAIN POWER SWITCH	82906500A
15	1	SWITCH - MAIN POWER	83012900A
16	1	SPACER PLATE	83013000A



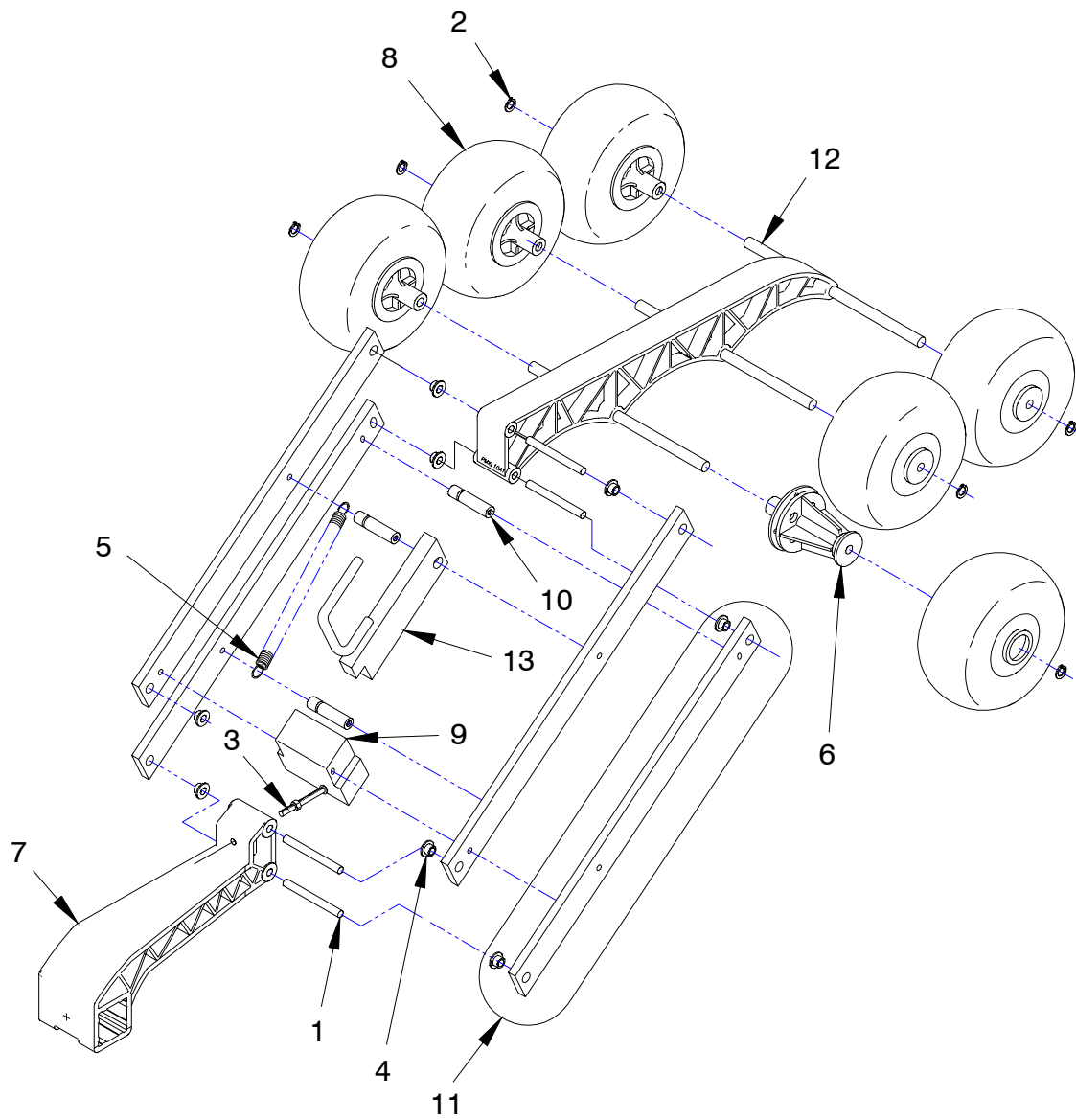
For
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3

Pressure Wheels

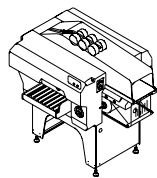


Pressure Wheels



Pressure Wheels Parts List

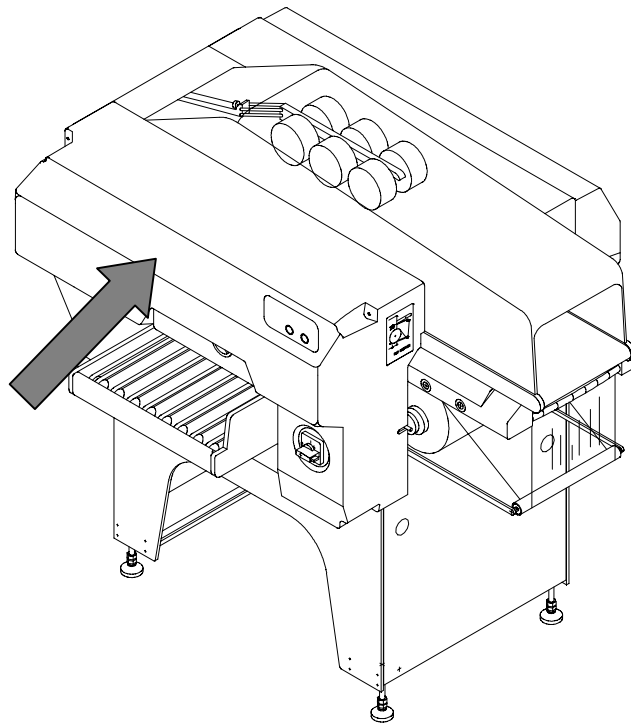
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	4	DOWEL PIN, 5MM DIA. X 50MM LONG	82703300A
2	6	SNAP RING, EXTERNAL, DIN 471 6MM ID	82706800A
3	1	ADJUSTMENT SCREW ASSEMBLY - PRESSURE ROLLER	A82914400A
4	8	IGLIDE FLANGE BEARING, 5MM ID X 7MM OD X 5MM	82721200A
5	1	SPRING	82725000A
6	6	HUB - PRESSURE ROLLER	82726600A
7	1	SUPPORT - PRESSURE WHEEL	82765300A
8	6	TIRE - PRESSURE ROLLER	82727000A
9	1	PRESSURE ROLLER STOP	82929600A
10	3	SPRING HOOK	82828700A
11	4	PRESSURE ROLLER LINK ASSEMBLY - XL	82973100A
12	1	ROLLER CARRIER ASSEMBLY	82875600A
13	1	PRESSURE ROLLER LATCH	82927200A



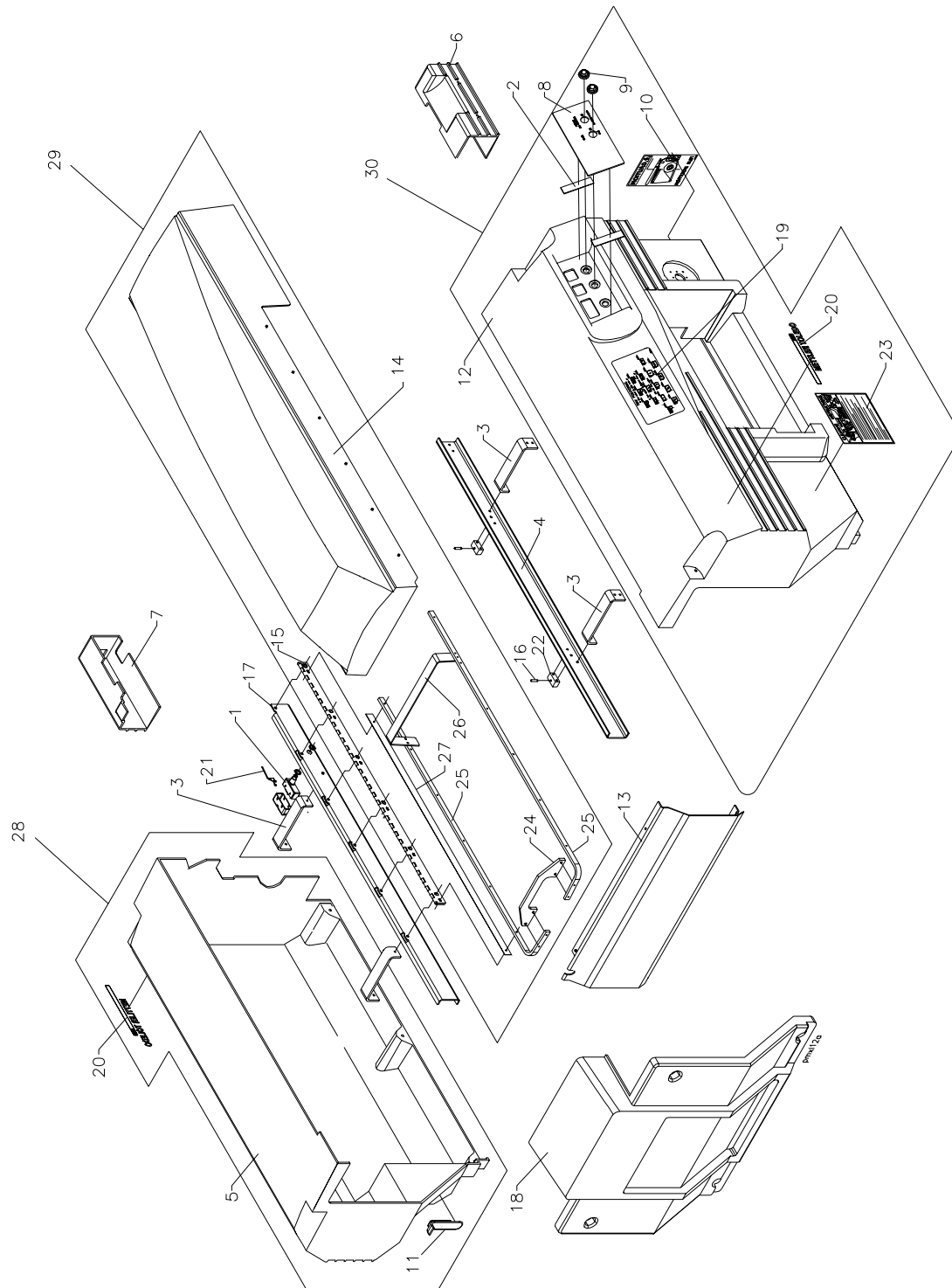
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4

Covers

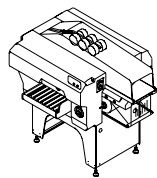


Covers



Covers

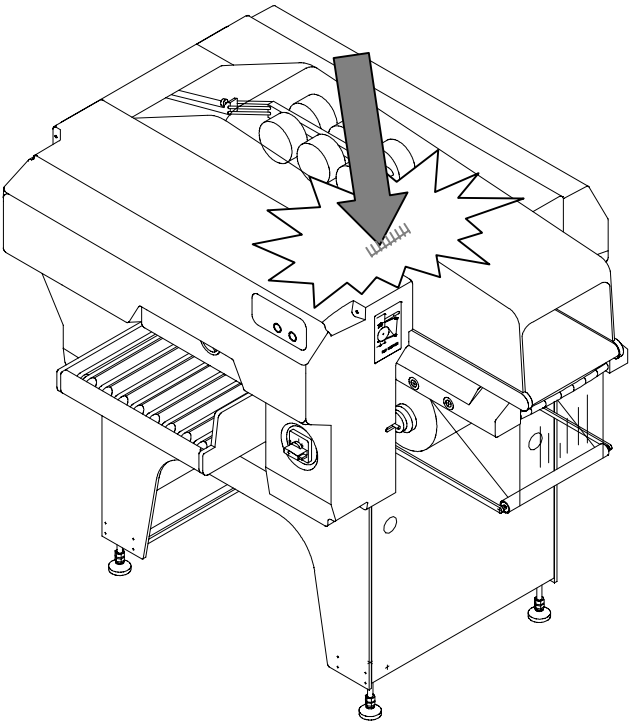
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	INTERLOCK SWITCH	82517000A
2	1	LENS MOUNTING TAPE	82822800A
3	4	SUPPORT - 645 XL COVER FRAME	82864400A
4	1	FRONT COVER FRAME - 645 XL	82865000A
5	1	REAR COVER - 645 XL	82812700A
6	1	FRONT FOLDER COVER - 645 XL	82812900A
7	1	REAR FOLDER COVER - 645 XL	82812800A
8	1	SOLO XL DISPLAY LENS	82864300A
9	2	PUSH BUTTON GROMMET	82727700A
10	1	DECAL - FILM INSERTION	82795900A
11	1	SERIAL PORT ACCESS COVER	82727900A
12	1	FRONT COVER - 645 XL	82812500A
13	1	INTERIOR SHIELD	82829700A
14	1	TOP COVER - 645 XL	82813000A
15	1	HOOD HINGE	82829900A
16	4	HOOD STOP, 645 COVER	82770900A
17	1	REAR COVER FRAME - 645 XL	82865100A
18	1	LEFT END COVER - 645 XL	82812600A
19	1	TRAY POSITIONING DECAL	82908800A
20	1	DECAL SOLO	82790300A
21	1	POWER CABLE CN3	82848200A
22	4	HOOD BUMPER	82804300A
23	1	DECAL - CLEANING INSTRUCTIONS	82848400A
24	1	HOOD UNION PLATE	82800800A
25	2	645 XL HOOD FRAME	82848600A
26	1	645 XL HOOD BRACE	82915900A
27	1	HOOD MOUNTING CUSHION	82865200A
28	1	REAR COVER ASSEMBLY - 645 XL	82907500A
29	1	TOP COVER ASSEMBLY - 645 XL	82907600A
30	1	FRONT COVER ASSEMBLY - 645 XL	82907700A



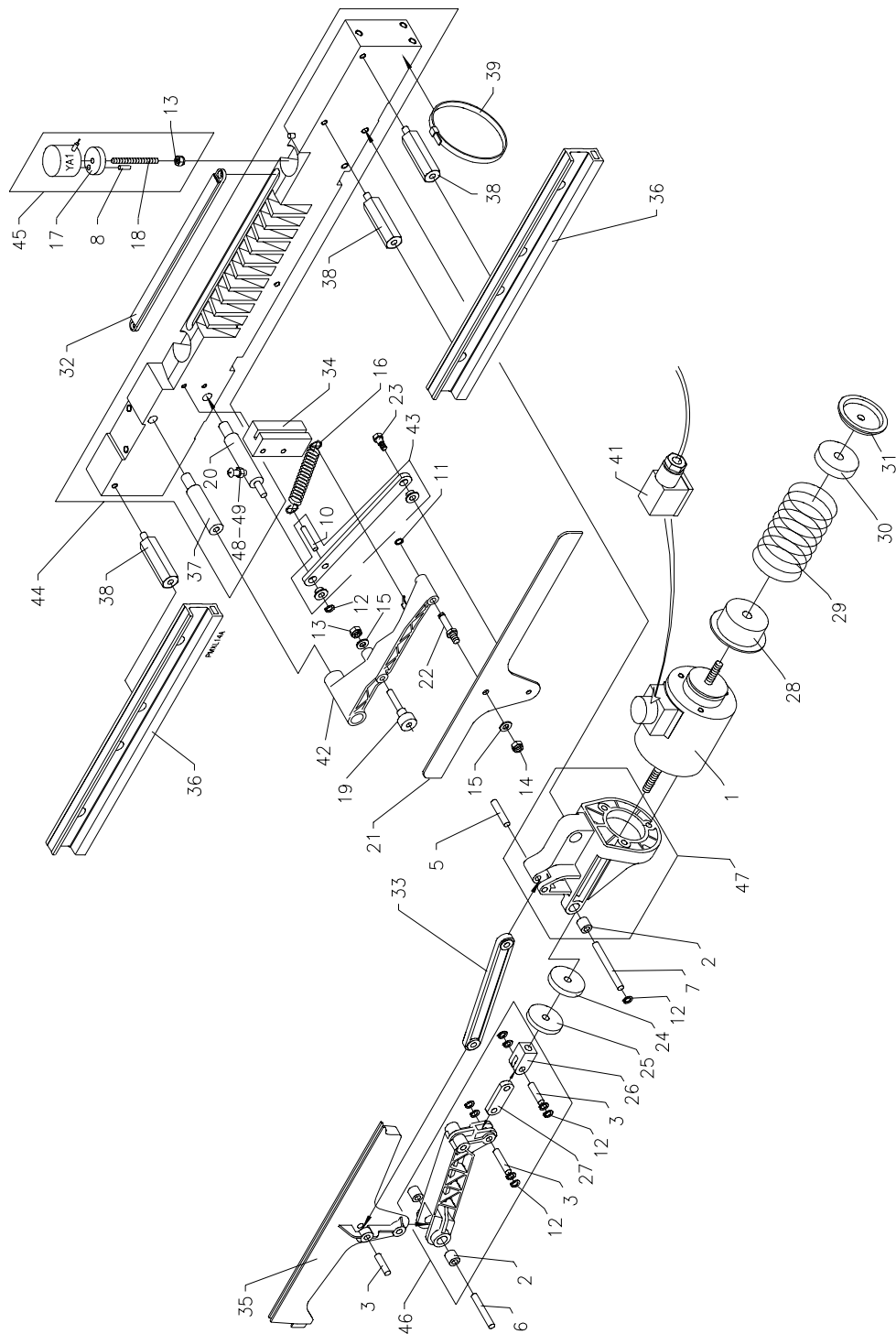
For
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5

Distributor/Cutter



Distributor/Cutting Assembly



Distributor/Cutting Assembly Parts List

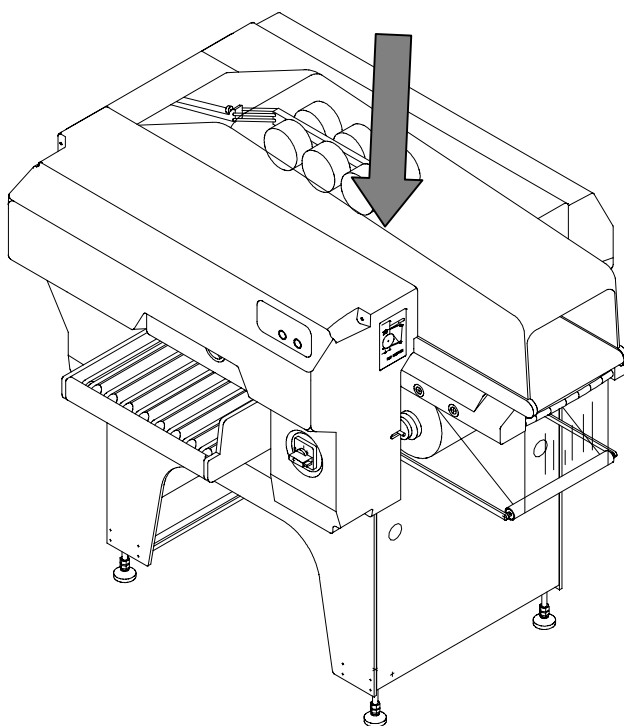
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	KNIFE SOLENOID (40% DUTY)	82875800A
2	3	ROLLER BEARING, 5MM ID X 9MM OD X 9MM	82701700A
3	2	DOWEL PIN, 5MM DIA. X 20MM LONG	82702900A
4	1	DOWLE PIN, 5MM DIA. X 24MM LONG	82703000A
5	1	DOWEL PIN, 5MM DIA. X 25.8MM LONG	82762300A
6	1	DOWEL PIN, 5MM DIA. X 36MM LONG	82703100A
7	1	DOWEL PIN, 5MM DIA. X 50MM LONG	82703300A
8	2	SPIRAL PIN, SS, DIN 8750 3MM DIA. X 10MM LONG	82705300A
9	1	SPRING HOOK, DIN 1469C 4MM DIA. X 16MM LONG	82706100A
10	1	SPRING HOOK, DIN 1469C 4MM DIA. X 25MM LONG	82706300A
11	1	SNAP RING, EXTERNAL, DIN 471 5MM ID	82706700A
12	9	GRIP RING, EXTERNAL, BIN 832 5MM ID	82707700A
13	3	SELF-LOCKING NUT, SS, DIN 985 M4	82709000A
14	1	SELF-LOCKING NUT, SS, DIN 985 M5	82709100A
15	2	WASHER, SS, DIN 125A M5	82709600A
16	1	SPRING	82725000A
17	2	ELECTROMAGNET PAD	82729600A
18	2	ROD, ELECTROMAGNET ADJUSTMENT	82729700A
19	1	LIFT PIN ASSEMBLY	82970700A
20	1	FILM LIFTER LINK FULCRUM	A82730000A
21	1	FILM LIFTER	82830500A
22	1	FILM LIFTER WRIST PIN	82730300A
23	1	FILM LIFTER SHOULDER SCREW	82730400A
24	1	BUMPER, SOLENOID LOWER STOP	82730500A
25	1	SOLENOID LOWER STOP	82730600A
26	1	SOLENOID CLEVIS	82730700A
27	1	CHANNEL ACTUATOR LINK	82730800A
28	1	SOLENOID SPRING CAP	82731000A

METTLER TOLEDO SOLO® XL Series 2XXX Parts Catalog

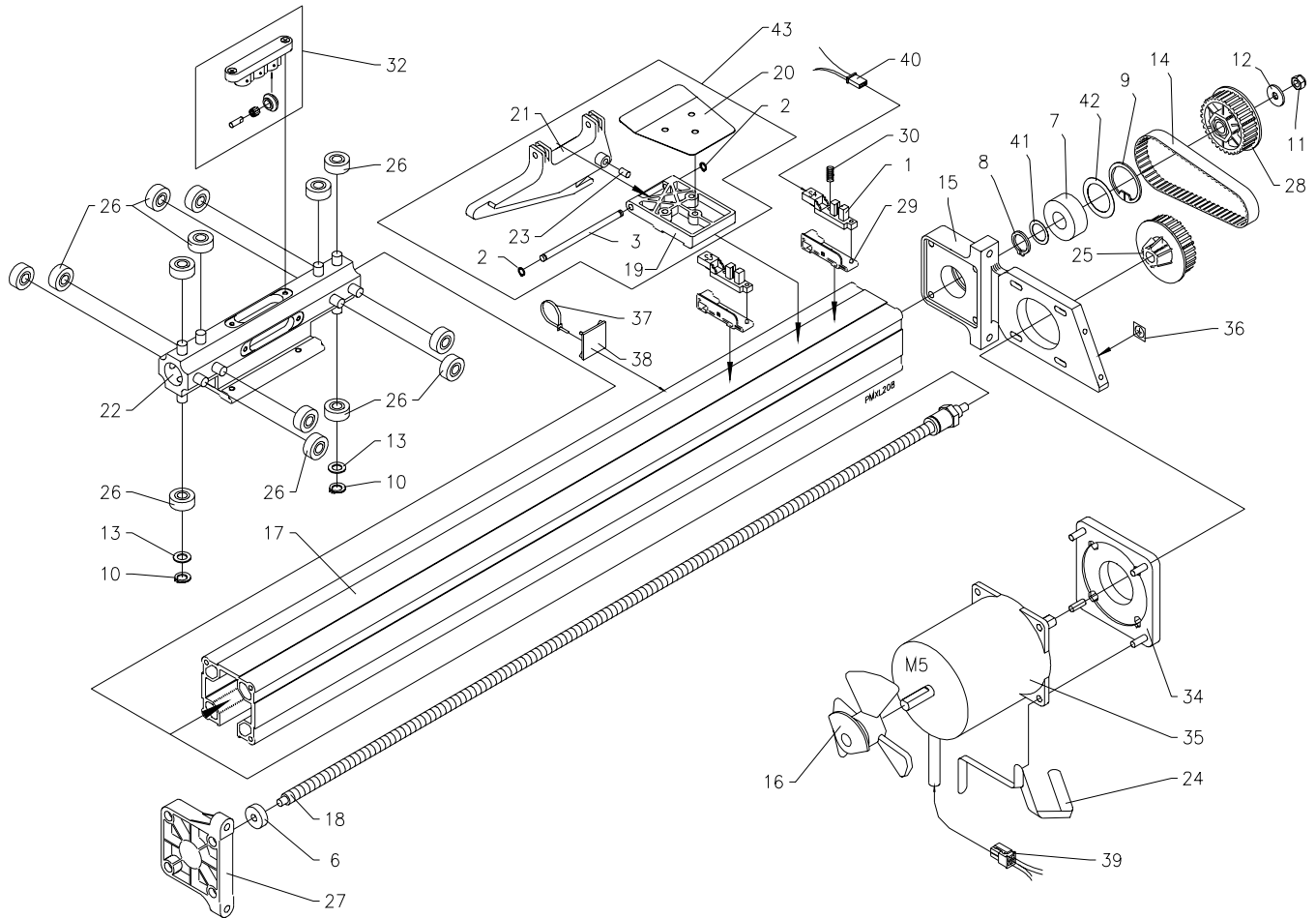
ITEM	QTY.	DESCRIPTION	PART NUMBER
29	1	SPRING	82731100A
30	1	BUMPER, SOLENOID UPPER STOP	82731200A
31	1	PLATE, SOLENOID UPPER STOP	82731300A
32	1	PAD, DISTRIBUTOR CLAMP	82731400A
33	1	CHANNEL, PARALLEL LINK	82731600A
34	1	GUIDE, CHANNEL	A82731700A
35	1	CUTTING CHANNEL	82731900A
36	2	SIDE CLAMP GUIDE - NO LIP	A82837400A
37	1	FILM LIFTER LINK FULCRUM	82750400A
38	3	TRACK STAND-OFF 5MM ID X 15MM OD X 44.5MM	82751900A
39	1	TY-WRAP	81253900A
40	1	POWER CABLE CN2	82848300A
41	1	POWER CABLE CN3	82848200A
42	1	FILM LIFT LEVER ASSEMBLY	B82859700A
43	1	FILM LIFT LINK	82862700A
44	1	DISTRIBUTOR ASSEMBLY - XL	82876000A
45	2	ELECTROMAGNET ASSEMBLY	82859800A
46	1	CHANNEL DRIVE LEVER ASSEMBLY	82909500A
47	1	SOLENOID MOUNT ASSEMBLY	82876100A
48	1	ROUND PHIL HEAD SCREW, STAINLESS STEEL M4 X 20MM LONG	82715600A
49	1	HEX NUT, STAINLESS STEEL M4	82708400A

6

Center Clamp



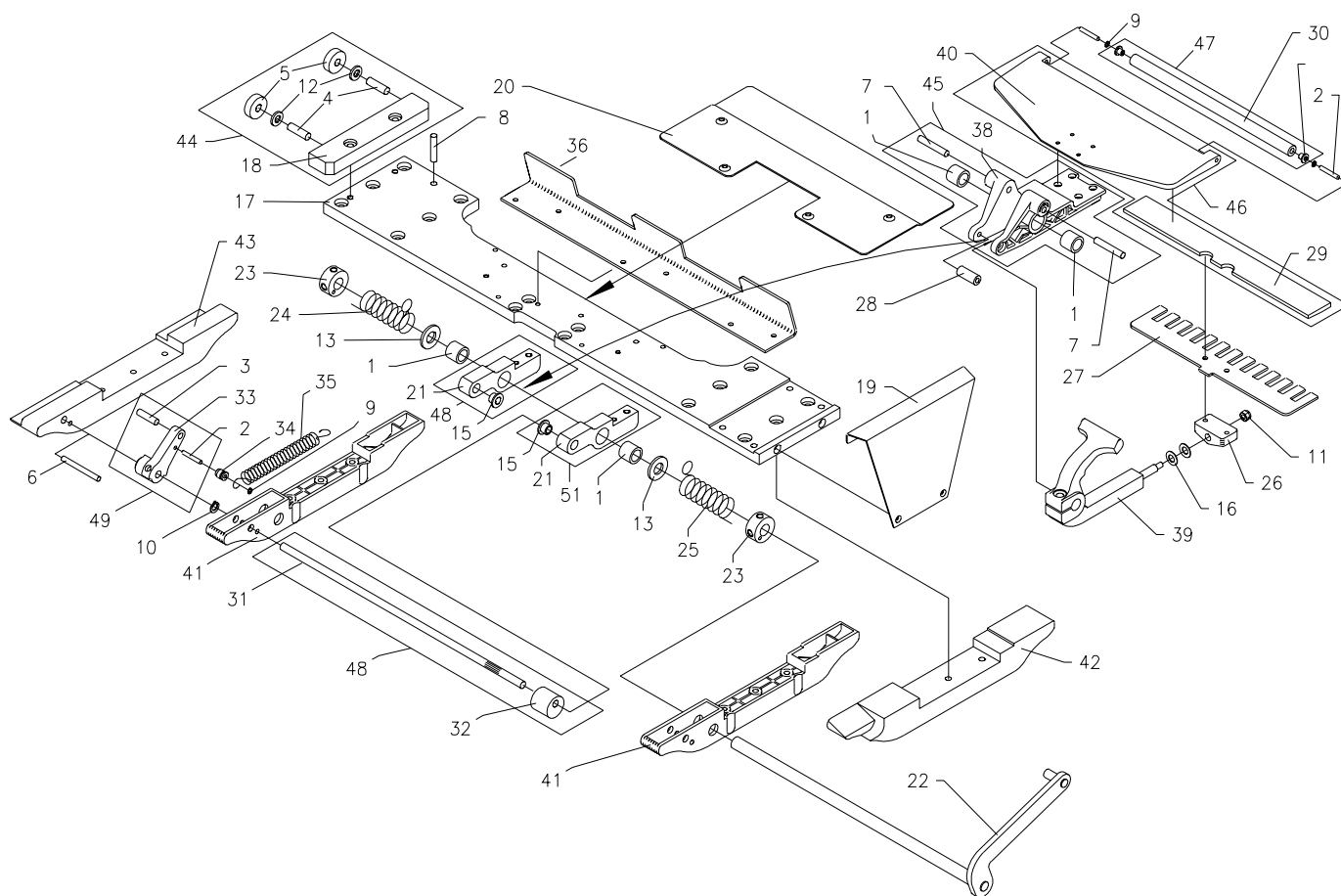
Center Clamp Actuator



Center Clamp Actuator Parts List

ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
2	83207900A	GRIP RING, EXTERNAL, BN 832-4.5MM ID
3	83207800A	SHAFT - GRIPPER CAM SUPPORT
6	82704200A	BALL BRG, 6MM ID X 19MM OD X 6MM
7	82704800A	BALL BRG, 15MM ID X 35MM OD X 14MM
8	82707100A	SNAP RING, EXTERNAL, DIN 471-15MM ID
9	82707400A	SNAP RING, INTERNAL DIN 472-35MM OD
10	82707900A	GRIP RING, EXTERNAL, BN 832-8MM ID
11	82709200A	SELF-LOCKING NUT, SS, DIN 985 - M6
12	82710600A	FENDER WASHER, SS, DIN 9021B - M6
13	82711300A	SHIM WASHER, DIN 988;8 IDX14 ODX.5MM
14	82757100A	TIMING BELT, 5MM P X 12MM W X 68T
15	82938900A	MOTOR SUPPORT PLATE-CENTER CLAMP
16	82758000A	FAN/ENCODER ASSB
17	82830600A	ACTUATOR CASING-CENTER CLAMP
18	82830700A	LEADSCREW - CENTER CLAMP
19	82732400A	GRIPPER CAM MOUNT
20	82732500A	FILM GRIPPER CAM SPRING
21	B82732600A	FILM GRIPPER CAM
22	82860100A	CENTER CLAMP CARRIAGE ASSB
23	82762400A	GRIPPER CAM BUMPER
24	82742000A	GROUND STRAP
25	82757900A	MOTOR PULLEY - 32 TTH
26	82752500A	CARRIAGE GUIDE WHEEL ASSB
27	82752700A	SUPT, SCREW TAIL
28	82752800A	PULLEY, LEAD SCREW, NYLON
29	82752900A	ADJUSTABLE SENSOR MOUNT
30	82753000A	SPRING, L0=9.65 L1=5.87 K=3.84N/MM
32	82876200A	ROLLER ASSB - ACTUATOR NUT
34	82756300A	ISOLATOR - MOTOR MOUNT
35	82756700A	STEPPER MOTOR, 2NM, DOUBLE SHAFT
36	82700100A	GROUND DECAL
37	A80655500A	CABLE TIE
38	A80690800A	PLATE-TY WRAP MTG
39	82848200A	POWER CABLE CN3
40	82849100A	SIGNAL CABLE
41	82906900A	SHIM RING 15 ID X 21 OD X 0.2
42	82906800A	SHIM RING 25 ID X 35 OD X 0.1
43	82860200A	GRIPPER CAM ASSB

Center Clamp



Center Clamp Parts List

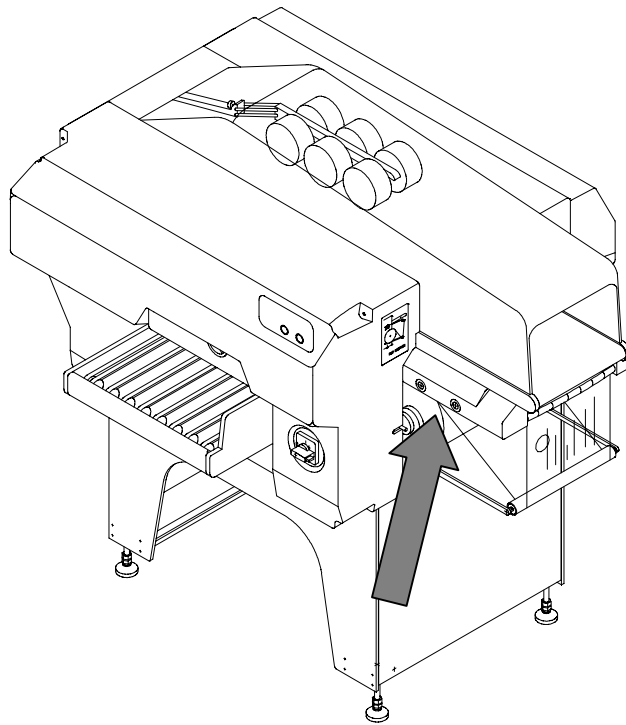
ITEM	PART #	DESCRIPTION
1	82701900A	ROLLER BRG, 10MM ID X 14MM OD X 12
2	82702500A	DOWEL PIN, 3MM D X 20MM L
3	82702900A	DOWEL PIN, 5MM D X 20MM L
4	82703400A	DOWEL PIN, 6MM D X 20MM L †
5	82704200A	BALL BRG, 6MM ID X 19MM OD X 6MM
6	82824300A	TAPER PIN, DIN 1471-4MM D X 35MM L
7	82705000A	TAPER PIN, DIN 1471-5MM D X 30MM L
8	82706500A	SPRING HOOK, DIN 1469C-5MM D X 25MM
9	82707600A	GRIP RING, EXTERNAL, DIN 471-3MM ID
10	82707800A	GRIP RING, EXTERNAL, DIN 471-6MM ID
11	82709000A	SELF-LOCKING NUT, SS, DIN 985 - M4
12	82709700A	WASHER, SS, DIN 125A - M6
13	82710400A	WASHER, POLYAMIDE, DIN 125A - M10
14	82721100A	IGLIDE FLNG BRG, 3MM IDX4.5MM ODX5
15	82721300A	IGLIDE FLNG BRG, 6MM IDX8MM OD X6MM
16	82721800A	BELLEVILLE SPRING,DIN 2093B 6.2X12
17	82830900A	CENTER CLAMP FRAME
18	82732800A	BEARING BLOCK - CENTER CLAMP †
19	82733000A	SENSOR FLAG - CENTER CLAMP
20	82831000A	UNDERFOLD PLATE
21	82733200A	GRIPPER BEARING BLOCK - CTR CLAMP
22	82831100A	GRIPPER ACTUATOR LEVER
23	82733400A	SET COLLAR-10MM ID X 22MM OD X 10MM
24	82733500A	GRIPPER TORSION SPRING - RIGHT
25	82733600A	GRIPPER TORSION SPRING - LEFT
26	82733700A	GRIPPER ROCKER BRG - CTR CLAMP
27	A82831200A	FILM GRIPPER
28	82733900A	ECCENTRIC FOLLOWER PIN - CTR CLAMP
29	82831300A	PAD - FILM GRIPPER UPPER JAW
30	82831400A	CENTER CLAMP ROLLER
31	82831500A	ECCENTRIC SHAFT
32	82734300A	GRIPPER ECCENTRIC
33	82734400A	ECCENTRIC ACTUATOR LEVER
34	82734500A	GRIPPER SPRING BEARING
35	82734600A	ECCENTRIC DRIVE SPRING - CTR CLAMP
36	83022400A	PUSHER SUPPORT
38	82735100A	GRIPPER BEARING BLOCK
39	82735200A	GRIPPER MOUNTING LEVER

† NOTE: If replacing items 4 or 18 check to see if the mating channel is slotted. If it is slotted, order assembly 82863000A and 82830800A, Center Clamp Track.

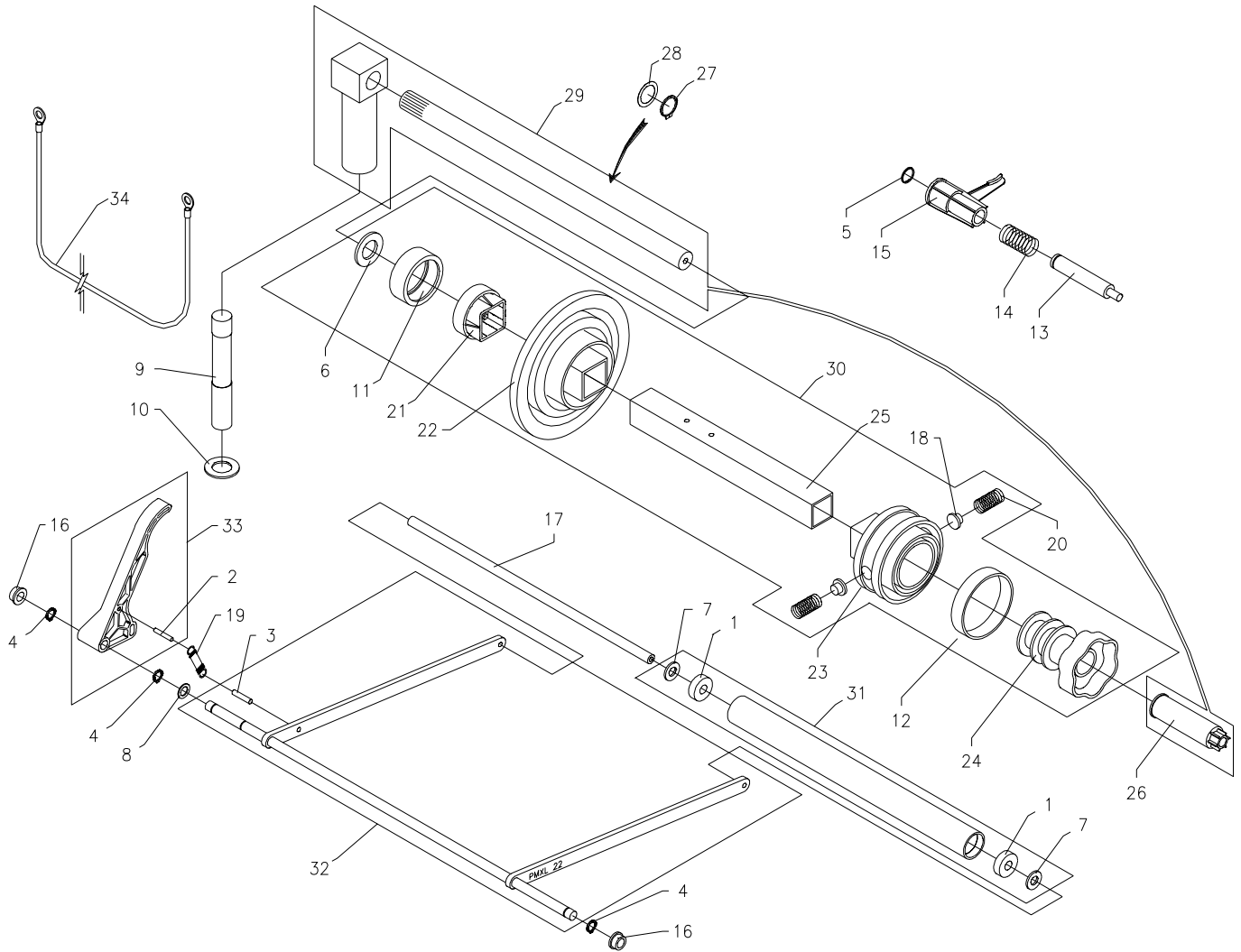
ITEM	PART #	DESCRIPTION
40	82831600A	GRIPPER UPPER JAW
41	82735400A	SKATE - CENTER CLAMP
42	82831700A	GRIPPER SKATE-FRONT
43	82831800A	GRIPPER SKATE-REAR
44	82863000A	CENTER CLAMP GUIDE BEARING ASSB
45	82860600A	CENTER CLAMP UPPER JAW MOUNT ASSB
46	82876300A	UPPER JAW ASSB - XL CENTER CLAMP
47	82876400A	ROLLER ASSB - XL CENTER CLAMP
48	82876500A	ECCENTRIC ASSB - XL CENTER CLAMP
49	82860400A	ECCENTRIC DRIVE LEVER ASSB
50	82876600A	PIVOT ASSB - XL CENTER CLAMP, LEFT
51	82876700A	PIVOT ASSB - XL CENTER CLAMP, RIGHT

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Film Bobbin and Folder



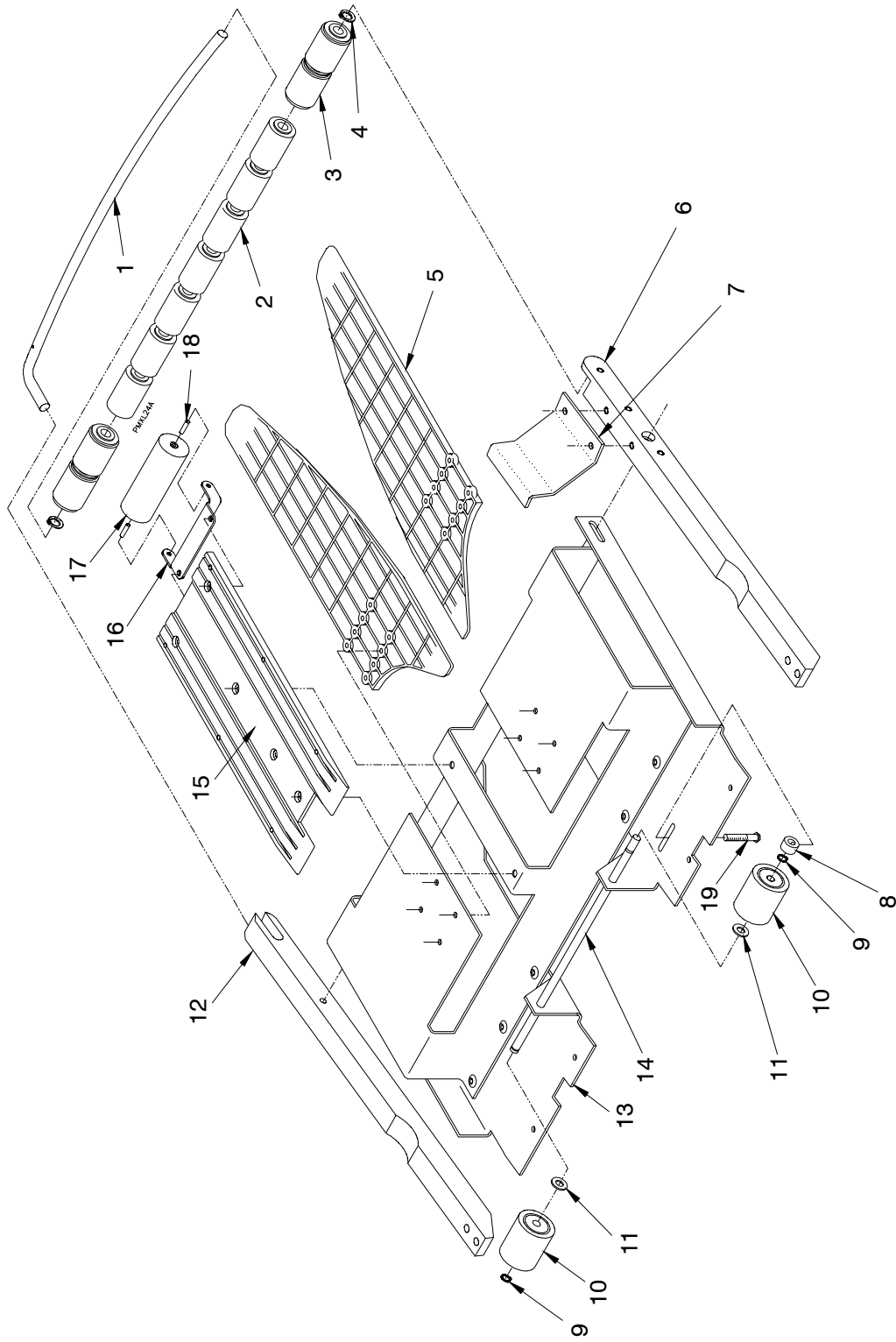
Film Bobbin/Dancer Bar



Film Bobbin/Dancer Bar Parts List

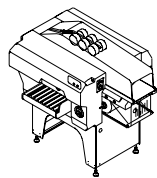
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	2	BALL BEARING 10MM ID X 26MM OD X 8MM	82704400A
2	1	SPRING HOOK, DIN 1469C 4MM DIA. X 25MM	82706300A
3	1	SPRING HOOK, DIN 1469C 5MM DIA. X 25MM	82706500A
4	3	SNAP RING, EXTERNAL, DIN 471 10MM ID	82707000A
5	1	SNAP RING, EXTERNAL, SEEGER V-15MM ID	82707500A
6	1	WASHER, STAINELSS STEEL, DIN 125A M20	82710000A
7	2	WASHER, POLYAMIDE, DIN 125A M10	82710400A
8	1	SHIM WASHER, DIN 988, 10MM ID X 16MM OD X 1MM	82711500A
9	1	PIVOT, FILM BOBBIN	82735600A
10	1	WASHER, 20MM ID X 35MM OD X 2MM THICK	82735700A
11	1	FILM BRAKE RING	82736000A
12	1	BOBBIN LOCK RING	82763300A
13	1	BOBBIN LOCK PIN	82736200A
14	1	SPRING	82736300A
15	1	BOBBIN LOCK CYLINDER	82736400A
16	2	BEARING, BRONZE FLANGE	82736600A
17	1	DANCER BAR ROLLER AXLE	82832000A
18	2	CAM FOLLOWER	82911000A
19	1	SPRING	82737000A
20	2	COMPRESSION SPRING - BOBBIN LOCK	82763000A
21	1	FILM BRAKE HUB	82739000A
22	1	BOBBIN REAR REF. DISK - 3" MOLDED	82763100A
23	1	BOBBIN LOCKING DISK - 3" MOLDED	82763200A
24	1	ROLL GRIP CAM, DELRIN	82739300A
25	1	FILM BOBBIN TUBE	82832200A
26	1	BOBBIN RETAINER CAP	82763800A
27	1	SNAP RING, EXTERNAL, DIN 471 20MM ID	82707200A
28	1	SHIM WASHER, DIN 988, 20MM ID X 28MM OD X 1 MM	82711600A
29	1	BOBBIN SUPPORT ASSEMBLY, XL	82876800A
30	1	FILM BOBBIN ASSEMBLY, XL	82876900A
31	1	DANCER ROLLER ASSEMBLY, XL	82877000A
32	1	DANCER SUPPORT ASSEMBLY, XL	82877100A
33	1	DANCER BRAKE SHOE ASSEMBLY	82862600A
34	1	STATIC STRING ASSEMBLY, XL	82912600A

Film Folder



Film Folder Parts List

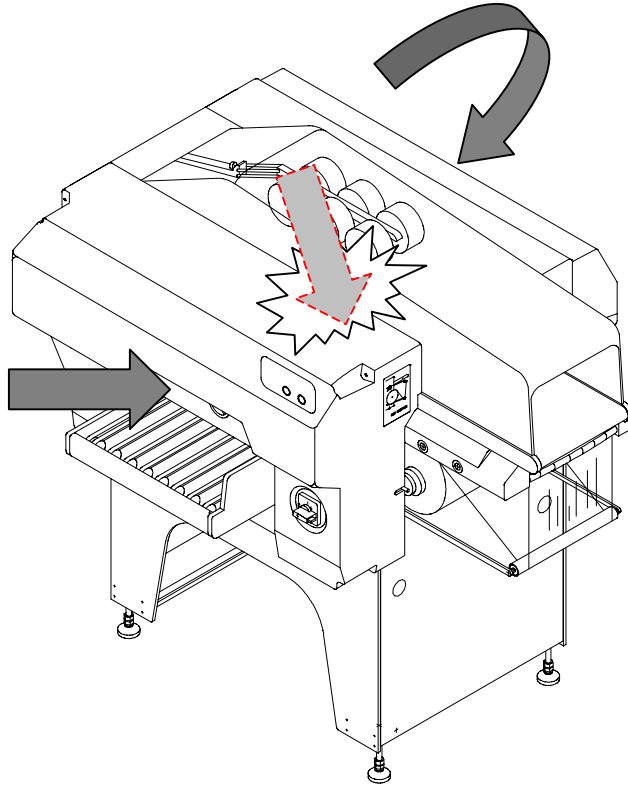
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	CURVED ROLLER BAR	82832600A
2	7	FILM ROLLER - WITHOUT SLEEVE	82912200A
3	4	FILM ROLLER ASSEMBLY	82756800A
4	2	GRIP RING, EXTERNAL, DIN 471 8MM I.D.	82707900A
5	2	FOLDER PLATE - SIDE	82913100A
6	1	CURVED ROLLER SUPPORT - FRONT	82738100A
7	1	SEALING BELT SUPPORT	82807400A
8	1	SET COLLAR 1/4" ST. ST.	81895700A
9	2	SNAP RING, EXTERNAL, DIN 471 6MM I.D.	82706800A
10	2	PRESSURE WHEEL ASSEMBLY	82858800A
11	2	FLAT WASHER, SS, DIN 125A M6	82709700A
12	1	CURVED ROLLER SUPPORT	82833600A
13	1	FOLDER MOUNTING PLATE ASSEMBLY	83005000A
14	1	PRESSURE WHEEL SHAFT	82989200A
15	1	FOLDER PLATE ASSEMBLY - XL CENTER	82916500A
16	1	ROLLER SUPPORT	82832800A
17	1	FILM ROLLER	82832900A
18	2	DOWEL PIN, 3MM DIA. X 12MM LONG	82703200A
19	1	ROUND HEAD MACH. SCREW, SLOTTED #10-32X1-1/4"	R0381200A



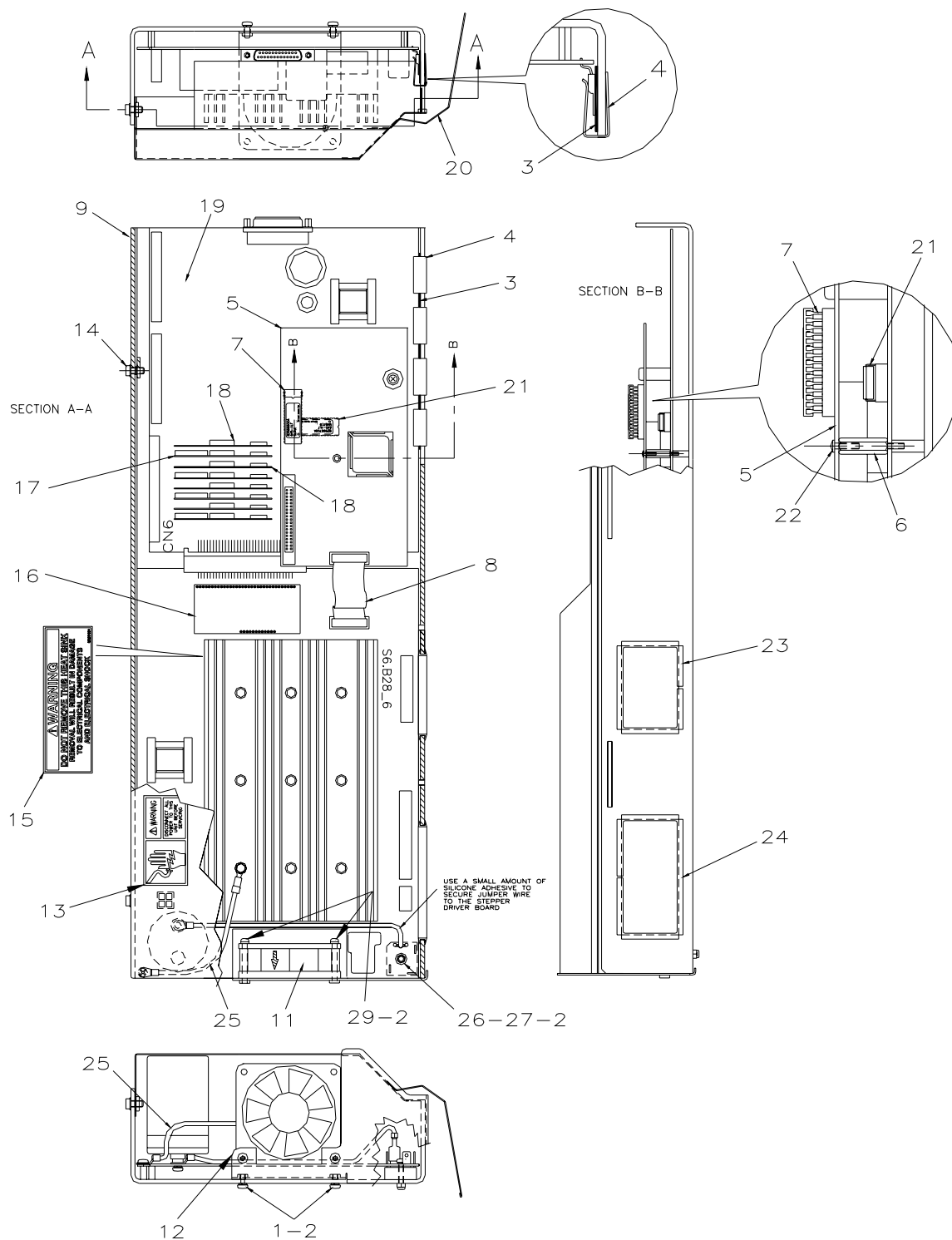
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Electronics and Clamp Opening Cam



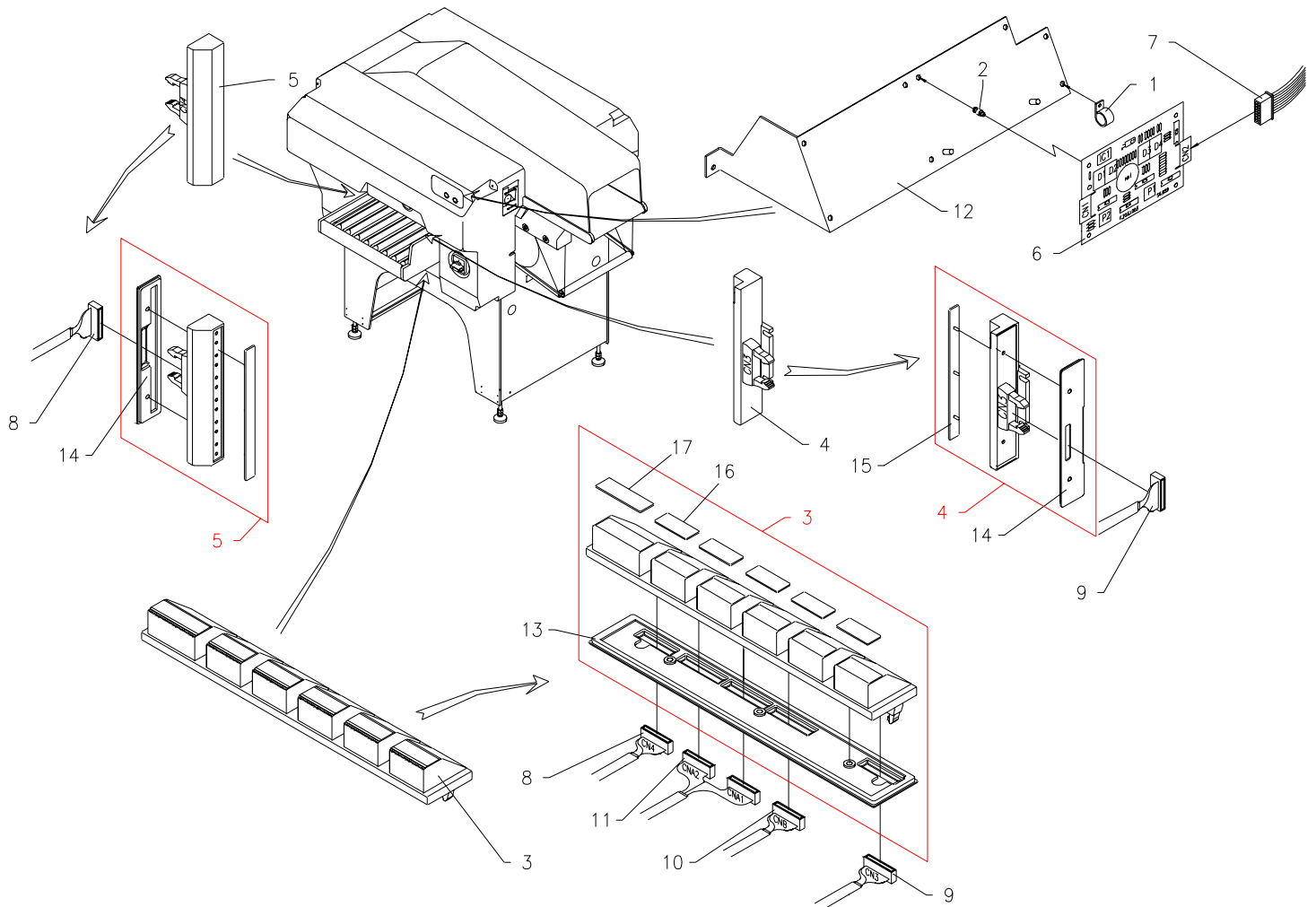
Electronics Rack



Electronics Rack Parts List

ITEM	QTY.	DESCRIPTION	PART NUMBER
1	2	CRHCS, SS, DIN 795A – M4 X 8MM	82715200A
2	5	LOCK WASHER, SS, DIN 127B – M4	82710800A
3	6"	ELECTRICAL INSULATION TAPE	82945600A
4	4	CLIP – DUAL MOSFET	14919200A
5	1	SLAVE CPU	14680300A
6	1	CIRCUIT BOARD SUPPORT	82757300A
7	1	PROGRAMMED EPROM – FAST XL SLAVE CPU 	B82996900A
8	1	SLAVE CPU LINK CABLE	82757500A
9	1	RACK CHASSIS	82960200A
10	1	STEPPER DRIVER BOARD	B153870TFW
11	1	FAN ASSEMBLY – 24 VDC WITH HARNESS	82740300A
12	1	FAN BRACKET GUARD	83073200A
13	1	LABEL – DISCONNECT POWER	81921300A
14	2	HHCS, SS, DIN 933 – M5 X 12MM	82712000A
15	REF.	LABEL – HEAT SINK WARNING	82896100A
16	REF.	PERSONALITY MODULE – PLUS – XL	14680700A
17	1	OUTPUT HYBRID MODULE	14720500A
18	2	INPUT HYBRID MODULE	14720600A
19	1	MAIN CPU BOARD W/O SOFTWARE INCLUDES I/O MODULE	14676700A
20	1	GUARD – CIRCUIT BOARD	B82741700A
21	1	PROGRAMMED EPROM FAST XL MAIN CPU 	B82996700A
22	1	CROSS RECESS HEAD CAP SCREW, SS, M3X6MM LONG	82714800A
23	1	GROMMET–RACK, 8" LONG	83074300A
24	1	GROMMET–RACK, 10" LONG	83074200A
25	REF.	WIRE ASSEMBLY–18 GA. GREEN 6" LONG	82810900A
26	1	CROSS RECESS HEAD CAP SCREW, SS, M4X20MM LONG	82715600A
27	1	HEX LOCK NUT, M4 THREAD	82709000A
28			
29	2	CRHCS, SS, DIN 7985A M4 X 30MM	82715800A

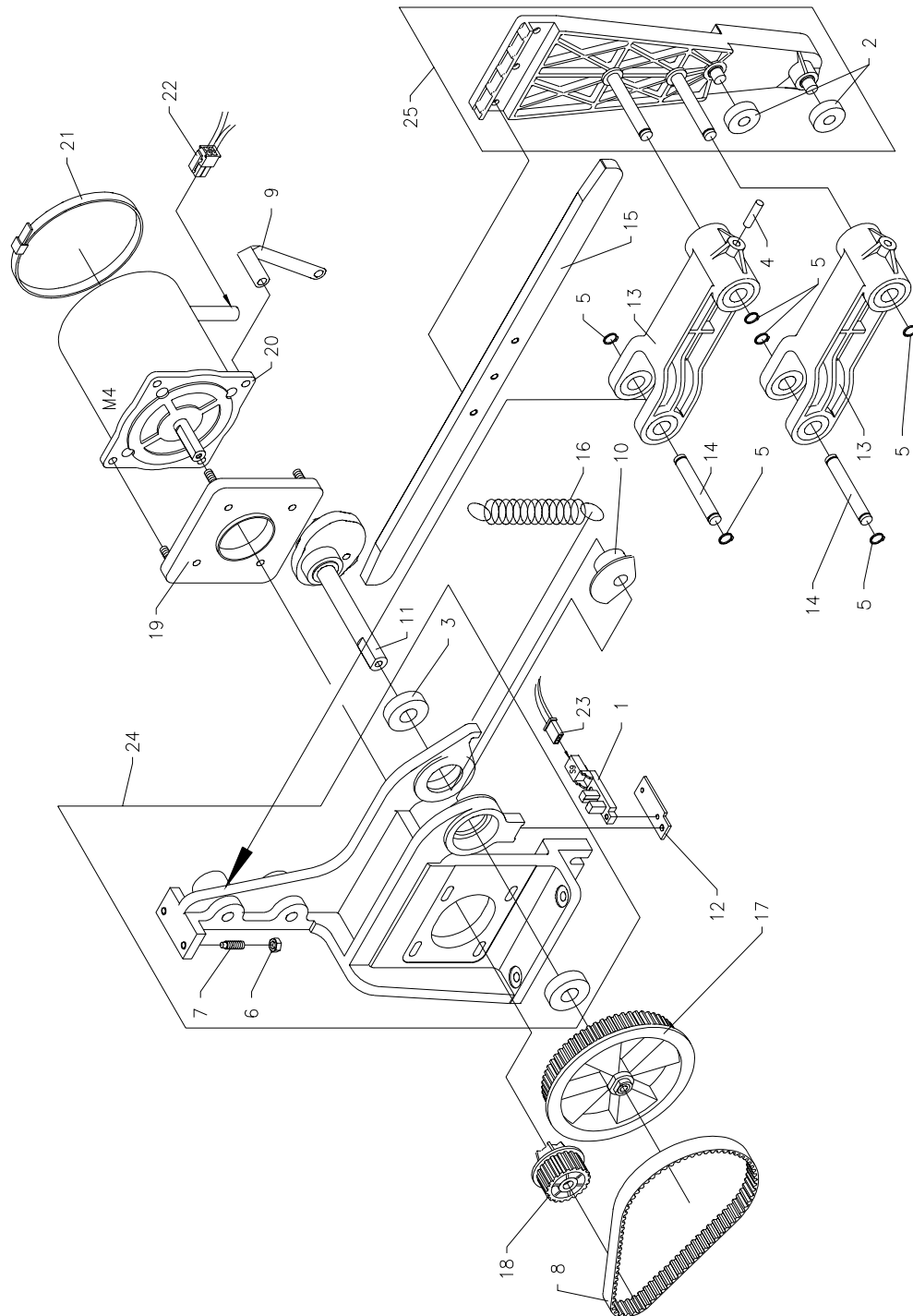
Photoeyes/Display



Photoeyes/Display Parts List

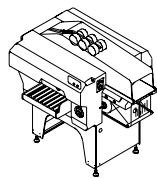
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	CABLE CLAMP	82700800A
2	2	STAND OFF - NYLON 0.152 X 0.188 LONG	82885600A
3	1	HORIZONTAL PHOTOEYE ASSEMBLY	14679100A
4	1	VERTICAL PHOTOEYE ASSEMBLY - RIGHT	14679500A
5	1	VERTICAL PHOTOEYE ASSEMBLY - LEFT	14679900A
6	1	DISPLAY BOARD ASSEMBLY	14677900A
7	1	SIGNAL CABLE	82990500A
8	1	VERTICAL LIGHT CURTAIN RIBBON CABLE	A82741300A
9	1	VERTICAL LIGHT CURTAIN RIBBON CABLE	A82741300A
10	1	PHOTOEYE CONN CABLE	A82741400A
11	1	PHOTOEYE CON CABLE-Y	A82741500A
12	1	DISPLAY BOARD SUPPORT - REV 5	82741800A
13	1	COVER - HORIZONTAL PHOTOEYE	14920600A
14	2	COVER - VERTICAL PHOTOEYE	14919900A
15	2	LENS - VERTICAL PHOTOEYE	14919800A
16	5	LENS - HORIZONTAL SMALL	14920100A
17	1	LENS - HORIZONTAL LARGE	14920200A

Clamp Opening Cam and Sensors



Clamp Opening Cam and Sensors Parts List

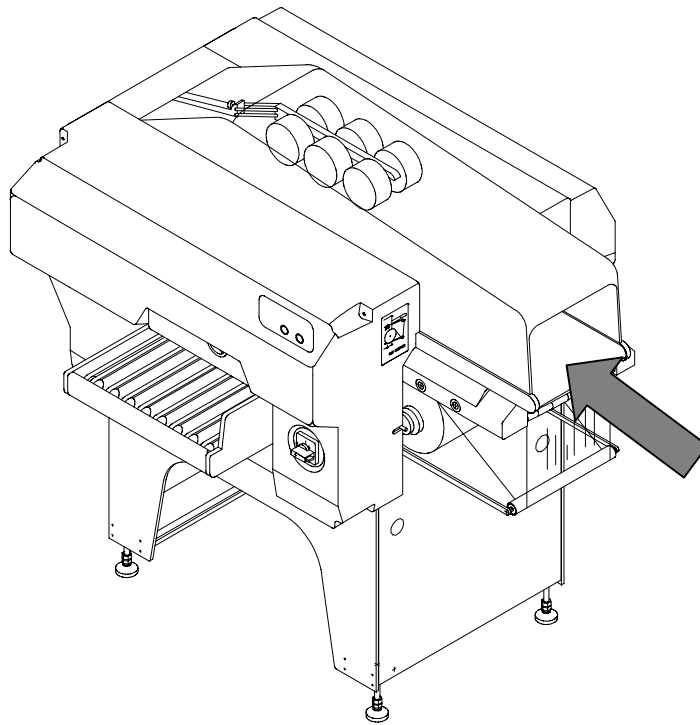
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	PHOTO INTERRUPT SENSOR	82700500A
2	2	BALL BEARING. 8MM I.D. X 22MM O.D. X 7MM	82704300A
3	2	BALL BEARING, 12MM I.D. X 32MM O.D. X 20MM	82704700A
4	1	SPRING HOOK, DIN 146C 5MM DIA. X 20MM LONG	82706400A
5	6	SNAP RING, EXTERNAL, DIN 471 8MM I.D.	82706900A
6	1	HEX NUT,, STAINLESS STEEL, DIN 934 M5	82708500A
7	1	DOG TIP SET SCREW, STAINLESS STEEL, DIN 915 M5 X 16MM	82718600A
8	1	TIMING BELT, 5MM PITCH X 12MM WIDE X 78 TOOTH	82720700A
9	1	GROUND STRAP	82742000A
10	1	ENCODER DISK	82743300A
11	1	CAM ASSEMBLY	82877600A
12	1	SENSOR SUPPORT	82743500A
13	2	CAM FOLLOWER ARM	82743600A
14	2	STATIONARY FOLLOWER PIN	82743700A
15	1	SIDE CLAMP ACTUATOR BAR	82834900A
16	1	SPRING	82744200A
17	1	CAM PULLEY, 5MM PITCH X 15.5MM WIDE X 60 TOOTH	82954300A
18	1	DRIVE PULLEY, 5MM PITCH X 15.5MM WIDE X 20 TOOTH	A82752200A
19	1	ISOLATOR MOTOR MOUNT	82756300A
20	1	STEPPER MOTOR, 2NM, SINGLE SHAFT	82756400A
21	1	CABLE TIE	A80655400A
22	1	POWER CABLE CN3	82848200A
23	1	SIGNAL CABLE	82990500A
24	1	CAM FRAME ASSEMBLY	82877700A
25	1	CAM FOLLOWER PLATE	82860800A



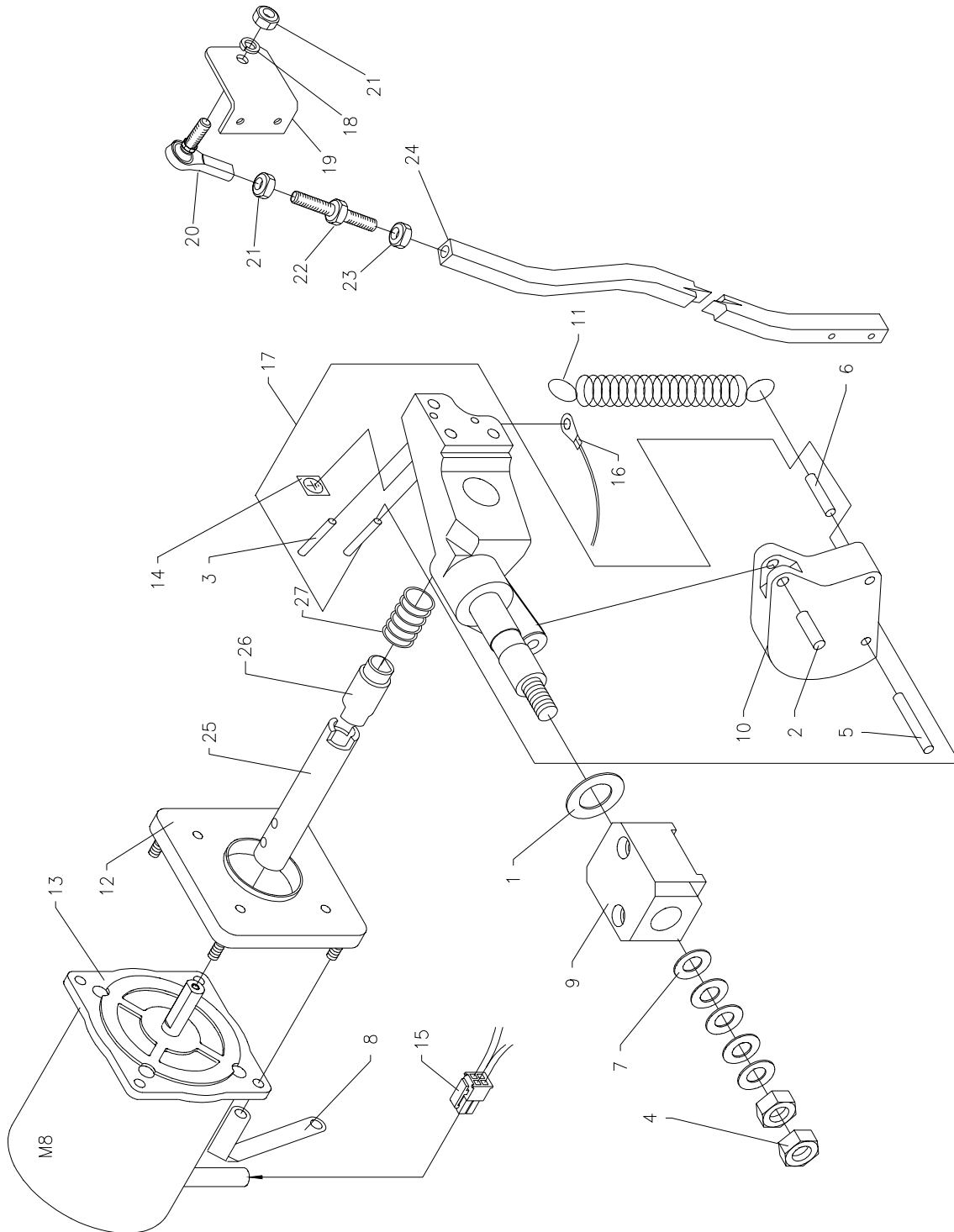
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Sealing Belt



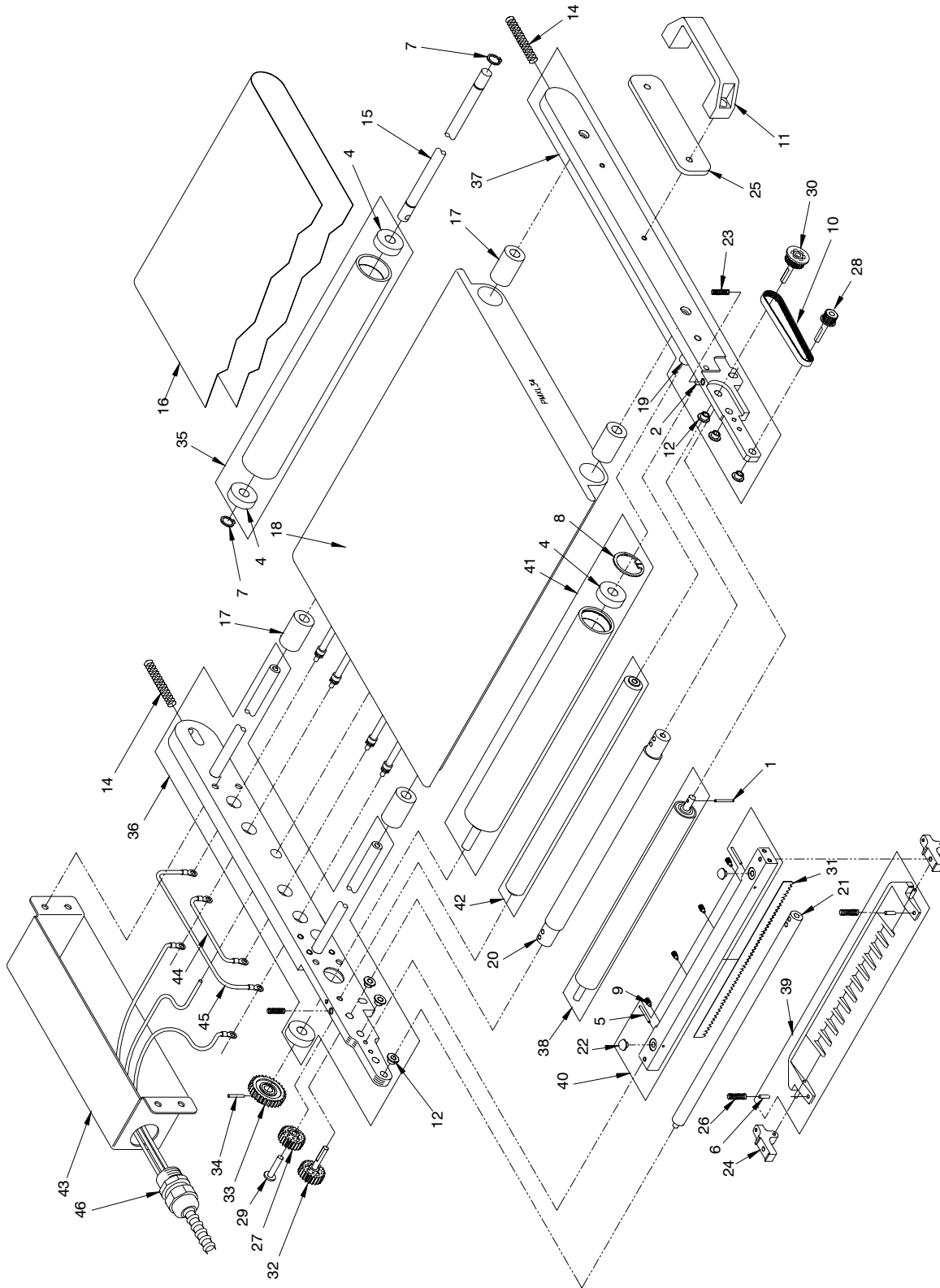
Sealing Belt Motor and Hinge



Sealing Belt Motor and Hinge Parts List

ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	THRUST WASHER, 17MM ID X 30MM OD X 1MM THICK	82702100A
2	1	DOWEL PIN, 6MM DIA. X 20MM LONG	82703400A
3	2	TAPER PIN, DIN 1471 - 4MM DIA. X 35MM LONG	82824300A
4	2	HEX JAM NUT, SS, DIN 439B - M10	82708200A
5	1	SPIRAL PIN, SS, DIN 8750 - 5MM DIA. X 36MM LONG	82705600A
6	1	SPRING HOOK, DIN 1469C - 5MM DIA. X 25MM LONG	82706500A
7	5	BELLEVILLE SPRING, DIN 2093B 10.2 X 20	82722000A
8	1	GROUND STRAP	82742000A
9	1	STATIONARY HINGE SUPPORT	82744500A
10	1	LATCH BLOCK SEALING PLATE	A82836300A
11	1	SPRING	82836400A
12	1	ISOLATER - MOTOR MOUNT	82756300A
13	1	STEPPER MOTOR, 2NM, SINGLE SHAFT	82756400A
14	1	GROUND DECAL	82700100A
15	1	POWER CABLE CN3	82848200A
16	1	GROUND WIRE ASSEMBLY	82742800A
17	1	HINGE ASSEMBLY XL SEALING BELT	82877800A
18	1	LOCK WASHER, 5/16, ZINC PLATED	R0283100A
19	1	PIVOT - AUXILIARY SEALING BELT	82901100A
20	1	ROD END WITH STUD - 5/16-24 UNF	82673700A
21	1	HEX NUT, 5/16-24 UNF, ZINC PLATED	R01174050
22	1	BOLT - UNIBALL CONNECTION	81182100A
23	1	HEX NUT, 5/16-24 UNF-LH, ZINC PLATED	R0291200A
24	1	SUPPORT, AUXILIARY SEALING BELT	82901000A
25	1	COUPLER	82984300A
26	1	PLASTIC COUPLER	82984200A
27	1	SPRING	82984400A

Sealing Belt



Sealing Belt Parts List

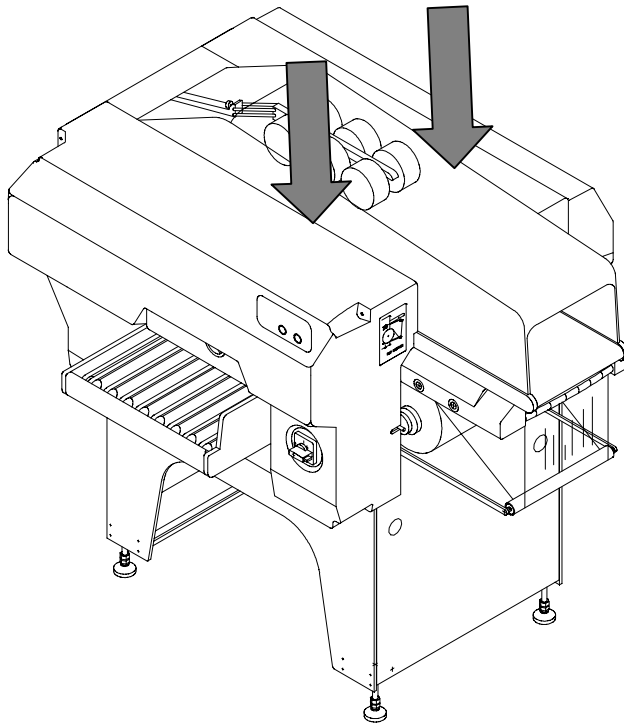
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	DOWEL PIN, 2MM DIA. X 20MM LONG	82702200A
2	1	DOWEL PIN, 5MM DIA. X 20MM LONG	82702900A
3	4	BALL BEARING, 10MM I.D. HIGH TEMP. GREASE	82703800A
4	4	BALL BEARING, 10MM I.D. HIGH TEMP. GREASE	82703900A
5	2	ROLL PIN, SPRING STEEL, DIN 1481 2MM X 20MM LONG	82705100A
6	4	SPIRAL PIN, SS, DIN 8750 3MM DIA. X 10MM LONG	82705300A
7	2	SNAP RING, EXTERNAL, DIN 471 10MM I.D.	82707000A
8	1	SNAP RING, EXTERNAL, DIN 472 30MM O.D.	82707300A
9	4	DOG TIP SET SCREW, SS, DIN 915 M4 X 8MM LONG	827118500A
10	1	TIMING BELT, 2.5MM P. X 6MM WIDE X 80 TOOTH	82720600A
11	1	U-HANDLE	82720800A
12	6	IGLIDE FLANGE BEARING, 5MM I.D. X 7MM O.D. X 5MM LONG	82721200A
13	1	TEMPERATURE SENSOR CABLE	A8274110 0A
14	2	SPRING	82744900A
15	1	IDLER SHAFT	82835100A
16	1	SEALING BELT	82825800A
17	4	HEATER INSULATOR	82745400A
18	1	SEALING PLATE	82950700A
19	1	DRIVE ROLLER SPINDLE	82745600A
20	1	PACKAGE DRIVE ROLLER ASSB.	A82835700A
21	1	FILM DRIVE ROLLER	82835900A
22	2	UNDERFOLDER BUMPER	82746300A
23	2	SPRING	82746600A
24	2	DISTRIBUTOR CLAMP PIVOT	82746700A
25	1	HANDLE INSULATOR, ABS	82746900A
26	2	SPRING	82747500A
27	1	IDLER GEAR, 22 TOOTH	82747700A

METTLER TOLEDO SOLO® XL Series 2XXX Parts Catalog

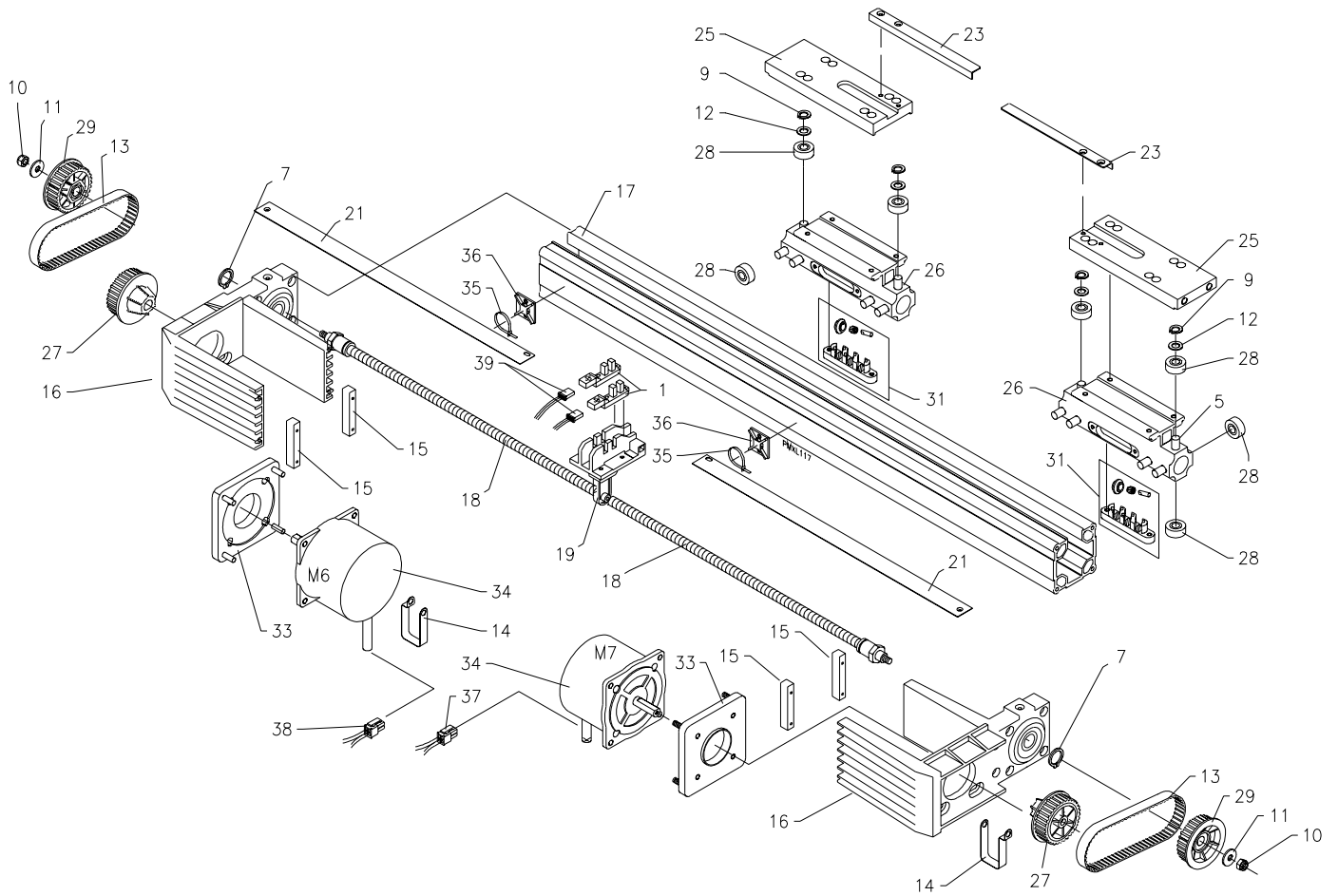
ITEM	QTY.	DESCRIPTION	PART NUMBER
28	1	FILM DRIVE PULLEY, SMALL, 16 TOOTH	82747800A
29	1	SPINDLE, IDLER GEAR	82748000A
30	1	FILM DRIVE PULLEY,LARGE, 24 TOOTH	82748200A
31	1	KNIFE	82836800A
32	1	FILM DRIVE GEAR	82765600A
33	1	DRIVE GEAR, LARGE, 40 TOOTH	82984100A
34	1	SPIRAL PIN, SS, DIN 8750 3MM DAI. X 20MM LONG	82705500A
35	1	IDLER ROLLER ASSEMBLY, XL SEALING BELT	82877900A
36	1	FRAME ASSEMBLY, XL SEALING BELT REAR	83007600A
37	1	FRAME ASSEMBLY, XL SEALING BELT FRONT	83007700A
38	1	FILM PRESSURE ROLLER ASSEMBLY, XL	82878200A
39	1	DISTRIBUTOR CLAMP PLATE ASSEMBLY, XL	82878300A
40	1	KNIFE MOUNT ASSEMBLY, XL	82878400A
41	1	ROLLER ASSEMBLY, XL SEALING BELT	83024400A
42	1	PACKAGE SUPPORT ROLLER ASSEMBLY	82882400A
43	1	SEALING BELT TERMINAL COVER	82976900A
44	1	WIRE ASSEMBLY	82994500A
45	1	WIRE ASSEMBLY	82994400A
46	1	CABLE CONNECTOR	A82474600A

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Side Clamps



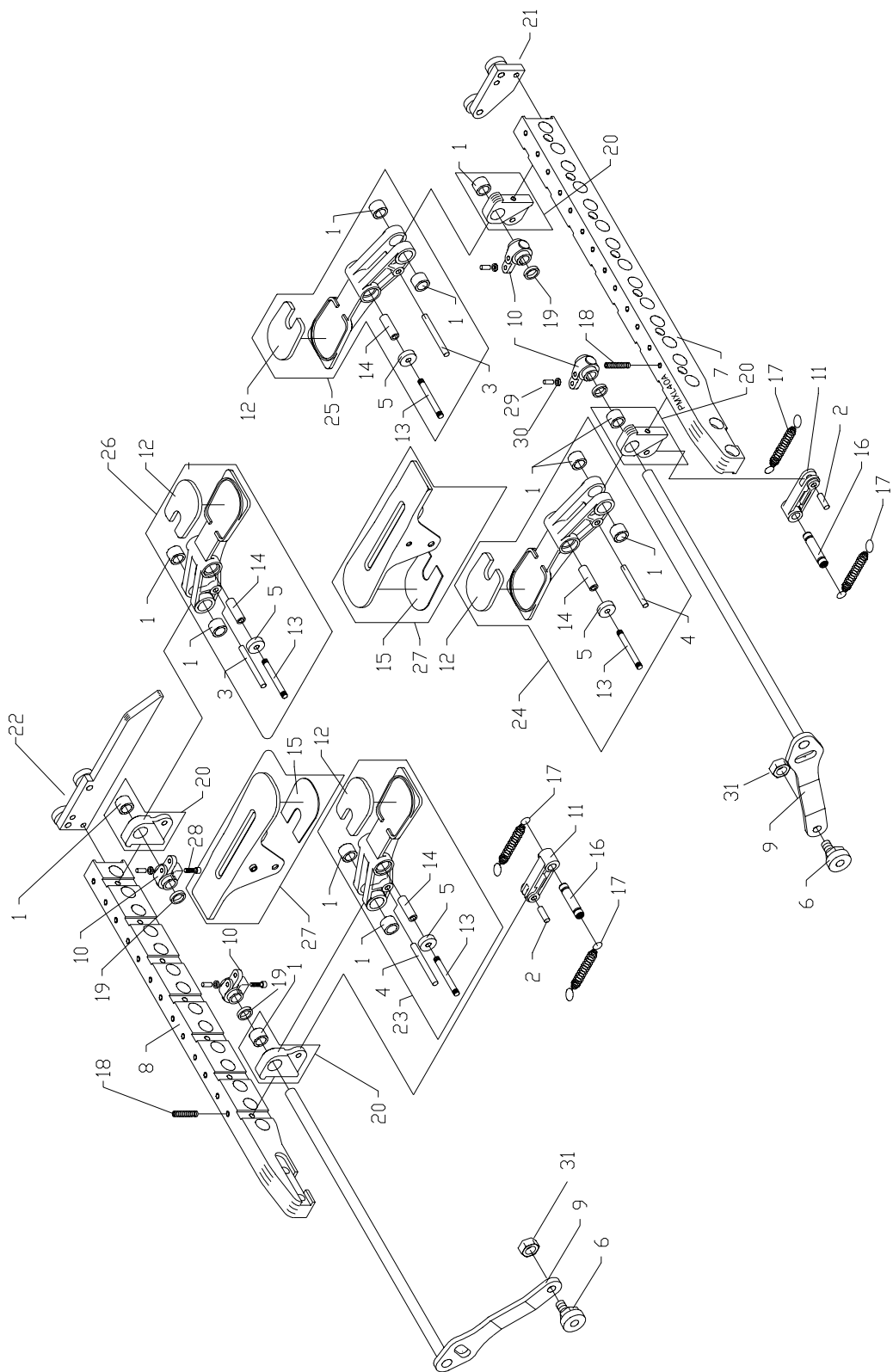
Side Clamp Actuator



Side Clamp Actuator Parts List

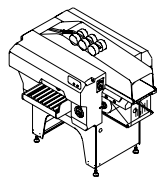
ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
7	82707100A	SNAP RING, EXTERNAL,DIN 471-15MM ID
9	82707900A	GRIP RING, EXTERNAL, BN 832-8MM ID
10	82708600A	HX NUT, SS, DIN 934 - M6
11	82710600A	FENDER WASHER, SS, DIN 9021B - M6
12	82711300A	SHIM WASHER,DIN 988;8 IDX14 ODX.5MM
13	82757200A	TIMING BELT, 5MM P X 12MM W X 71T
14	82742000A	GROUND STRAP
15	82940200A	MOTOR SUPT STANDOFF
16	82039000A	MOTOR SUPT STAND
17	82837000A	ACTUATOR CASING - SIDE CLAMP
18	82879600A	SIDE CLAMP LEADSCREW ASSB - XL
19	A82749200A	LEADSCREW SUPT
20	82749300A	SHIELD SPACER
21	82837200A	ACTUATOR SHIELD
23	82837300A	SIDE CLAMP FLAG
25	82749800A	MOUNTING PLATE - SIDE CLAMP
26	82861800A	ACTUATOR CARRIAGE ASSB - SIDE CLAMP
27	A82757900A	MOTOR PULLEY - 32 TTH
28	82752500A	CARRIAGE GUIDE WHEEL ASSB
29	82752800A	PULLEY, LEAD SCREW, NYLON
31	82876200A	ROLLER ASSB - ACTUATOR NUT
33	82756300A	ISOLATOR - MOTOR MOUNT
34	B82756400A	STEPPER MOTOR, 2NM, SINGLE SHAFT
35	A80655500A	CABLE TIE
36	A80690800A	PLATE-TY WRAP MTG
37	82848300A	POWER CABLE CN2
38	82833900A	POWER CABLE CN3
39	82849100A	SIGNAL CABLE

Side Clamps



Side Clamps Parts List

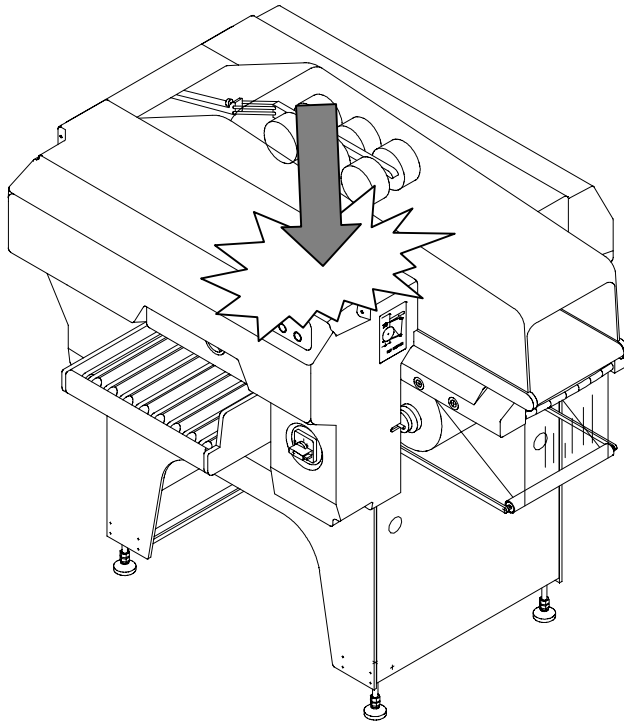
ITEM	PART NUMBER	DESCRIPTION
1	82701800A	ROLLER BEARING, 10MM I.D. X 14MM O.D. X 10MM
2	82702800A	DOWLE PIN, 5MM DIA. X 16MM LONG
3	82703200A	DOWEL PIN, 5MM DIA. X 40MM LONG
4	82703300A	DOWLE PIN, 5MM DIA. X 50MM LONG
5	82704000A	BALL BEARING, 5MM I.D. X 16MM O.D. X 5MM
6	82862000A	SIDE CLAMP ECCENTRIC ASSEMBLY
7	82837500A	SIDE CLAMP FRAME FRONT
8	82837700A	SIDE CLAMP FRAME REAR
9	82837600A	SIDE CLAMP LEVER
10	82750700A	ACTUATOR FINGER - SIDE CLAMP JAW
11	82750900A	LOWER LINK - SIDE CLAMP JAW
12	82751100A	SIDE CLAMP PAD - LOWER JAW
13	82751100A	UPPER PIVOT PIN - SIDE CLAMP JAW
14	82751300A	BEARING SPACER - SIDE CLAMP JAW
15	82751500A	SIDE CLAMP PAD - UPPER JAW
16	A82751600A	LOWER PIVOT PIN - SIDE CLAMP
17	82751700A	SPRING
18	82751800A	SPRING HOOK
19	82838000A	SPACER 10.5 X 14 X 3
20	82879700A	GRIPPER MOUNT ASSEMBLY
21	82901600A	RIGHT SIDE CLAMP BEARING SUPPORT KOP
22	82901300A	LEFT SIDE CLAMP BEARING SUPPORT KOP
23	82879800A	SIDE CLAMP JAW ASSEM. - LOWER ACTUATOR END REAR
24	82879900A	SIDE CLAMP JAW ASSEM. - LOWER ACTUATOR END , FRONT
25	82880200A	SIDE CLAMP JAW ASSEM. - LOWER CENTRAL, FRONT
26	82880300A	SIDE CLAMP JAW ASSEM. - LOWER CENTRAL, REAR
27	82880400A	SIDE CLAMP JAW ASSEM. - UPPER
28	82863700A	SHCS, STL-BLK, DIN912 12.9 M5 X 16MM LONG
29	82708500A	HEX NUT, SS, DIN 934 N M5
30	82718200A	HEX JAM NUT, SS, DIN 439B M8
31	82708100A	HEX JAM NUT, SS, DIN 439B M8



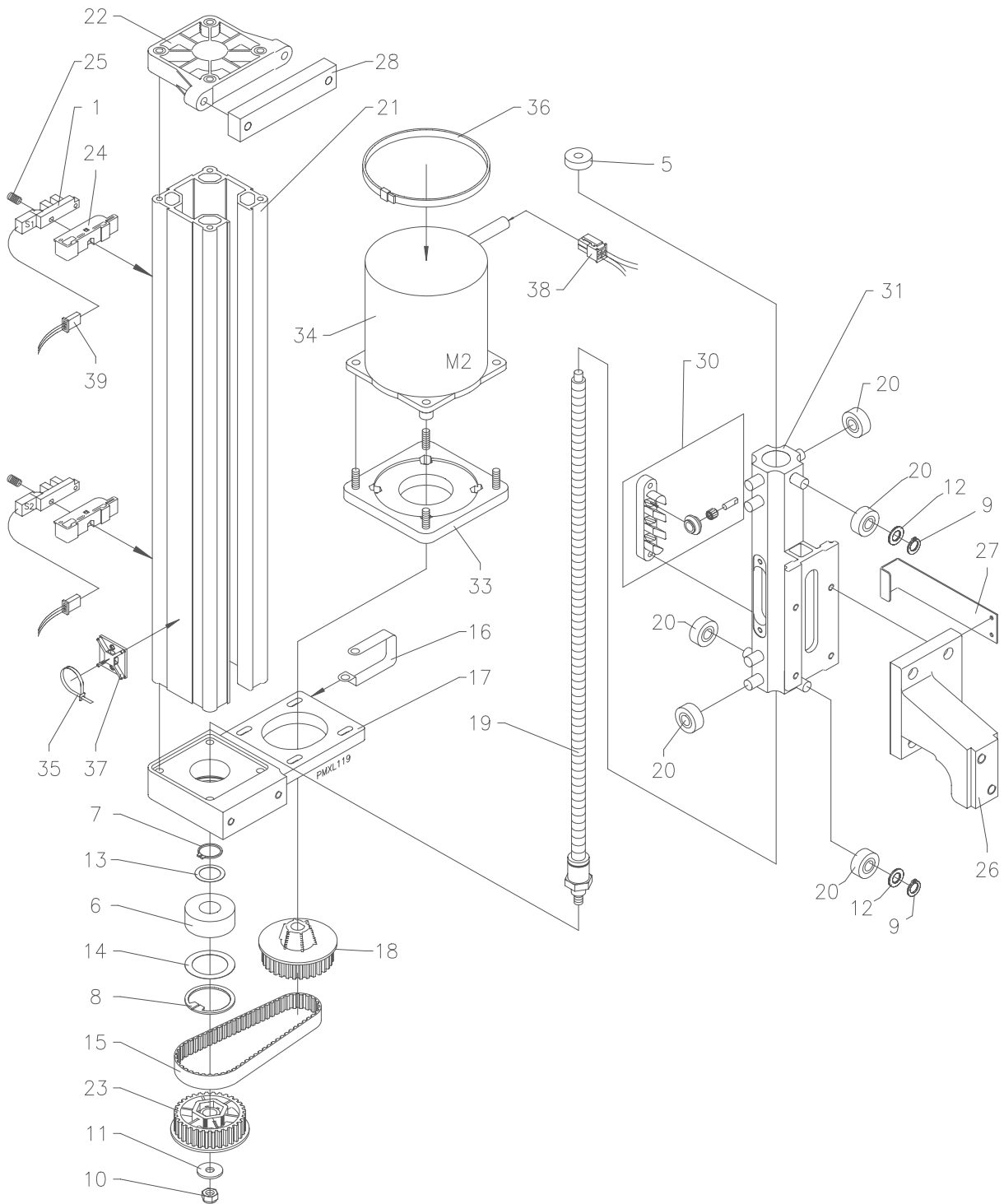
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Lifter



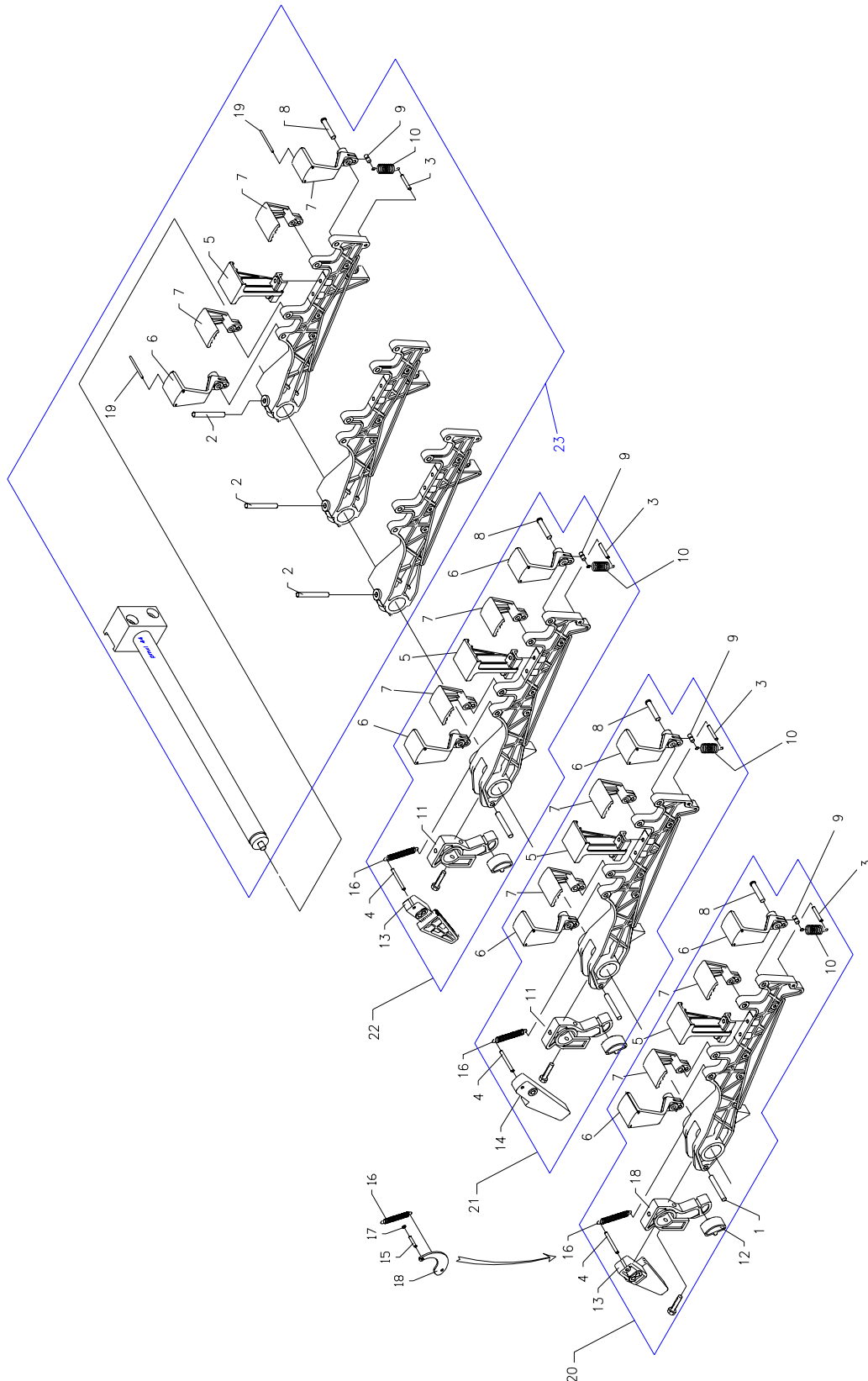
Lifter Actuator



Lifter Actuator Parts List

ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
5	82704200A	BALL BRG, 6MM ID X 19MM OD X 6MM
6	82704800A	BALL BRG, 15MM ID X 35MM OD X 14MM
7	82707100A	SNAP RING, EXTERNAL, DIN 471-15MM ID
8	82707400A	SNAP RING, INTERNAL DIN 472-35MM OD
9	82707900A	GRIP RING, EXTERNAL, BN 832-8MM ID
10	82709200A	SELF-LOCKING NUT, SS, DIN 985 - M6
11	82710600A	FENDER WASHER, SS, DIN 9021B - M6
12	82711300A	SHIM WASHER, DIN 988; 8 IDX14 ODX.5MM
13	82906900A	SHIM RING 15 ID X 21 OD X 0.2
14	82906800A	SHIM RING 25 ID X 35 OD X 0.1
15	82757000A	TIMING BELT, 5MM P X 12MM W X 66T
16	82742000A	GROUND STRAP
17	82939100A	MOTOR MOUNT-LIFTER ACTUATOR
18	82913000A	MOTOR PULLEY - 32 TTH
19	82838100A	LEADSCREW - LIFTER
20	82752500A	CARRIAGE GUIDE WHEEL ASSB
21	82838200A	ACTUATOR CASING - LIFTER
22	82752700A	SUPT, SCREW TAIL
23	82752800A	PULLEY, LEAD SCREW, NYLON
24	82752900A	ADJUSTABLE SENSOR MOUNT
25	82753000A	SPRING, L0=9.65 L1=5.87 K=3.84N/MM
26	82838300A	CARRIAGE EXT-LIFTER
27	82753200A	SENSOR FLAG - LIFTER
28	82755800A	SCREW SUPT SPACER
30	82876200A	ROLLER ASSB - ACTUATOR NUT
31	82862300A	LIFTER ACTUATOR CARRIAGE ASSB
33	82756300A	ISOLATOR - MOTOR MOUNT
34	B82756400A	STEPPER MOTOR, 2NM, SINGLE SHAFT
35	A80655500A	CABLE TIE
36	A80655400A	CABLE TIE
37	A80690800A	PLATE-TY WRAP MTG
38	82848300A	POWER CABLE CN2
39	82849100A	SIGNAL CABLE

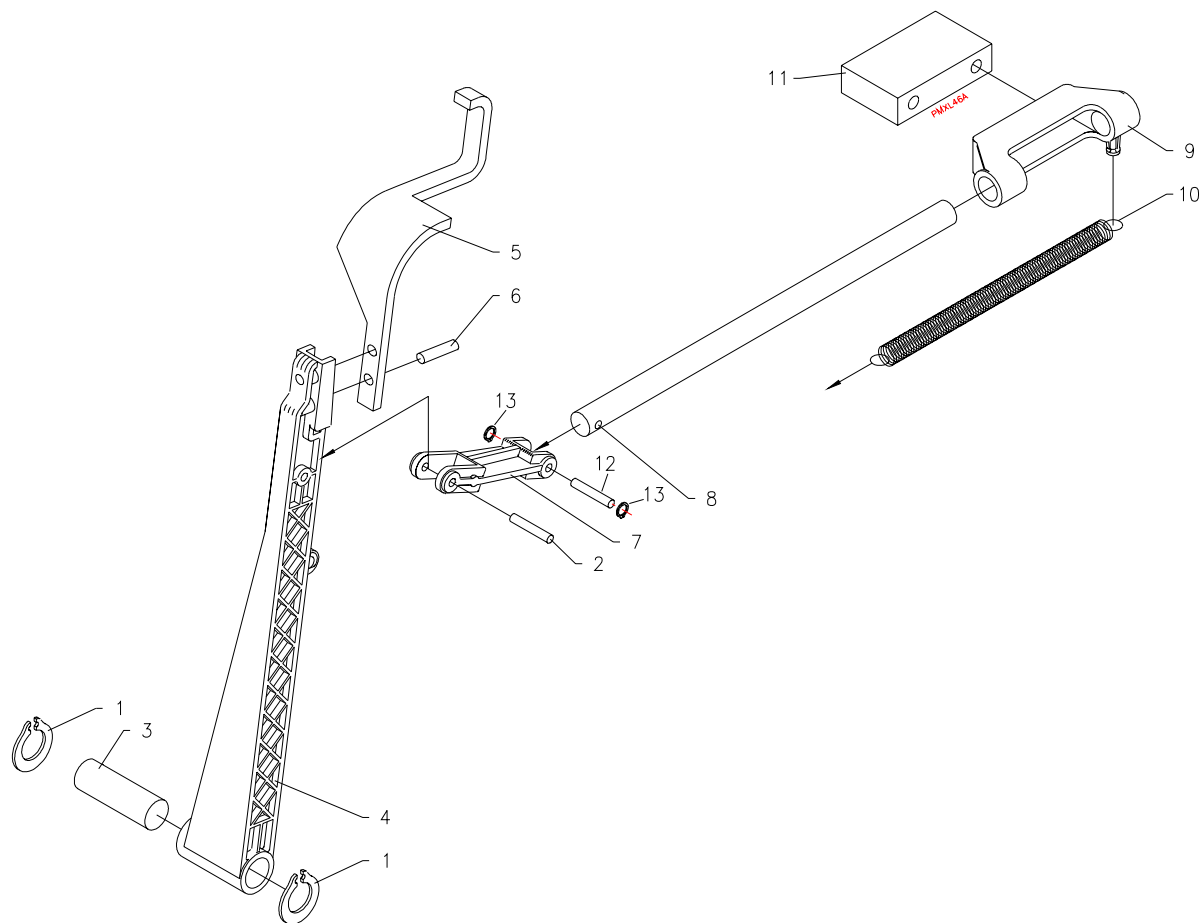
Lifter



Lifter Parts List

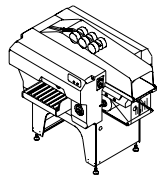
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	3	DOWEL PIN, 5MM DIA. X 36MM LONG	82703100A
2	3	SPIRAL PIN, STEEL, DIN 8750 5MM DIA. X 40MM LONG	82863500A
3	6	SPRING HOOK, DIN 1469C 3MM DIA. X 20MM LONG	82705800A
4	3	SPRING HOOK, DIN 1469C 3MM DIA. X 30MM LONG	82705900A
5	6	PACKAGE SUPPORT, CENTER	A82753600A
6	12	PACKAGE SUPPORT, LONG	82753700A
7	12	PACKAGE SUPPORT, SHORT	82753800A
8	12	PACKAGE SUPPORT PIVOT PIN	82753900A
9	6	PACKAGE SUPPORT SPRING HOOK	82754000A
10	6	SPRING	82754100A
11	3	MOBILE STOP LIFTER	B82754300A
12	3	BUMPER MOBILE LIFTER ARM	A82754400A
13	2	LATCH, MOBILE LIFTER ARM - OUTER	82754500A
14	1	LATCH, MOBILE LIFTER ARM - CENTER	82754600A
15	1	SPIRAL PIN, STAINLESS STEEL, DIN 8750 3MM DIA. X 16MM LONG	82705400A
16	4	SPRING	82754700A
17	1	GRIP RING, EXTERNAL, BN 832 3MM ID	82707600A
18	1	SPRING HOOK	82762600A
19	6	DOWEL PIN, 2MM DIA. X 20MM LONG	82702200A
20	1	MOBILE LIFTER ARM ASSEMBLY, LEFT	82907900A
21	1	MOBILE LIFTER ARM ASSEMBLY, CENTER	82908000A
22	1	MOBILE LIFTER ARM ASSEMBLY, RIGHT	82908100A
23	1	KIT OF PARTS - LIFTER ASSEMBLY	A82842700A

Lifter Release Assembly



Lifter Release Assembly Parts List

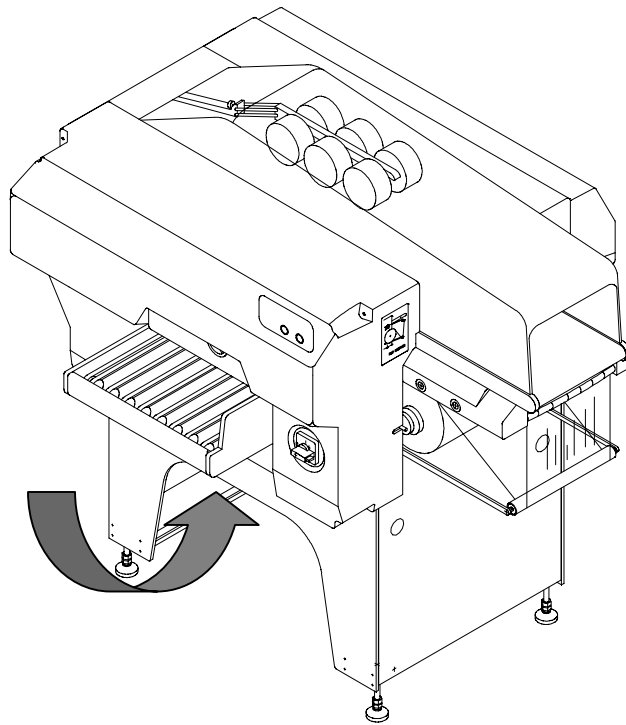
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	2	SNAP RING, EXTERNAL BN 832 15MM I.D.	82707100A
2	2	DOWEL PIN, 4MM DIA. X 24MM LONG	82702700A
3	1	LIFTER RELEASE PIVOT	82938800A
4	1	LEVER - LIFTER RELEASE	A82755000A
5	1	RELEASE LEVER EXTENSION	82838800A
6	1	BUMPER - LIFTER RELEASE	82755200A
7	1	CONNECTION LINK - LIFTER RELEASE	82755300A
8	1	RELEASE ROD	82838900A
9	1	SLIDE BEARING - LIFTER RELEASE	82755500A
10	1	SPRING	82755600A
11	1	STANDOFF - SLIDE BEARING	82839000A
12	1	DOWEL PIN, 4MM X 30MM	83058000A
13	1	GRIP RING, 4MM	83058100A



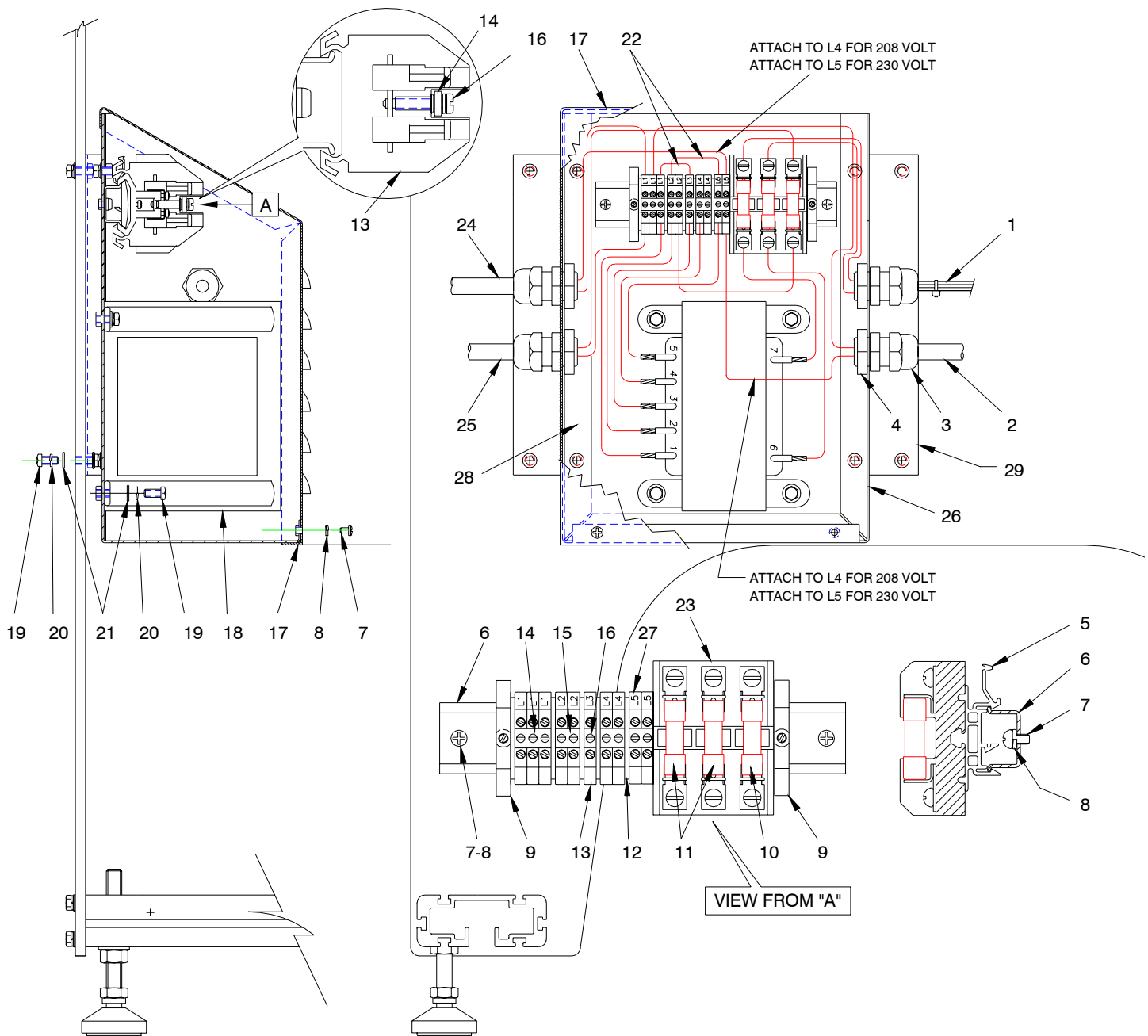
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Electrical



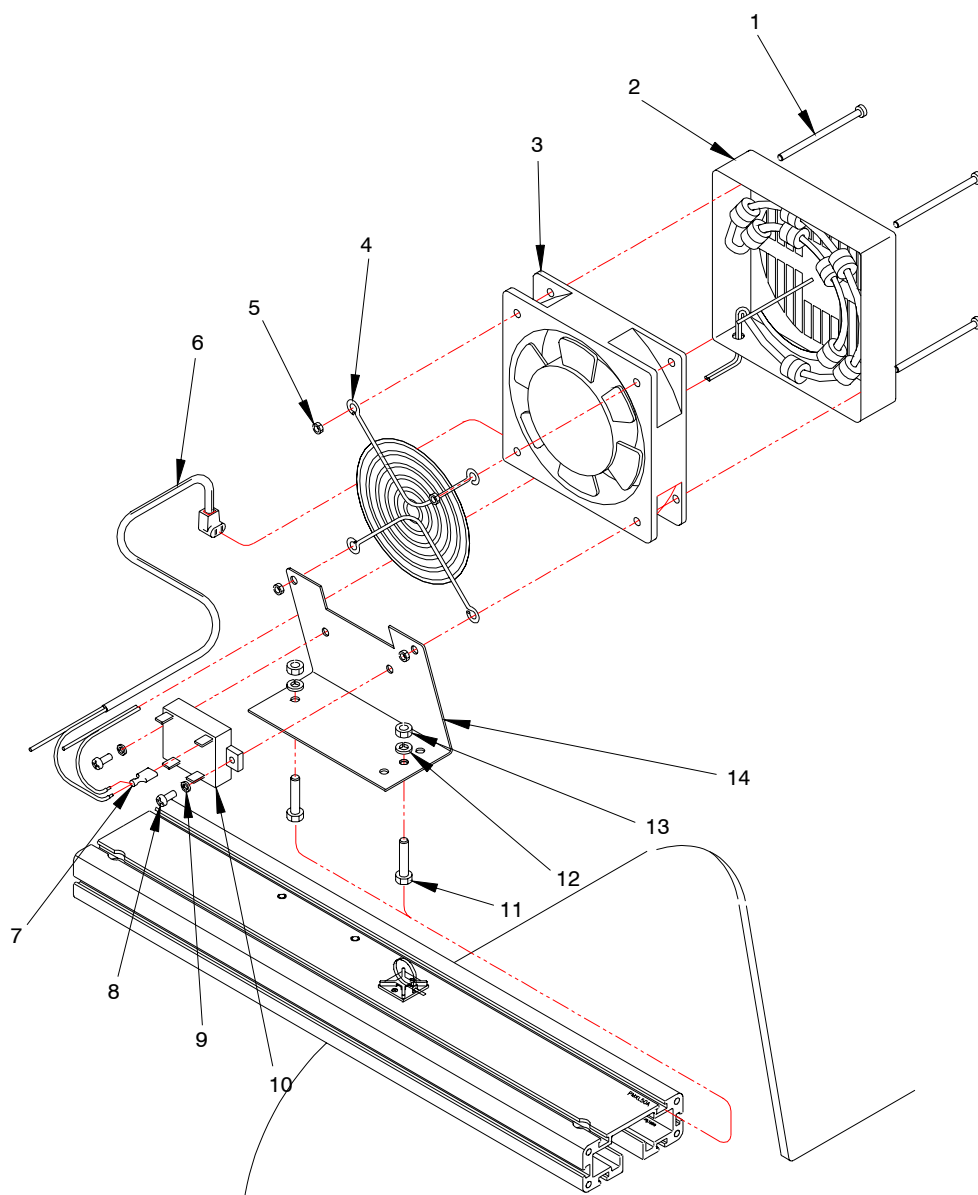
Transformer



Transformer Parts List

ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	INFEED CABLE ASSEMBLY	A82741000A
2	50"	16-2 CORD	500215282
3	4	CORD GRIP	A82474600A
4	4	CORD GRIP NUT	A80077800A
5	2	FUSE BLOCK/DIN RAIL ADAPTER	82995300A
6	1	DIN RAIL	82996600A
7	4	CRHCS, SS, DIN 7985A M4 X 6MM	82715100A
8	4	LOCK WASHER, SS, M4	82710800A
9	2	GROUND BARRIER	A882476400A
10	1	FUSE FNQ 10 AMP	82994800A
11	2	FUSE FNQ 25 AMP	82994900A
12	5	END BARRIER	82857400A
13	10	TERMINAL	82797300A
14	1	CROSS CONNECTION LINK STRIP (3 HOLE)	82995500A
15	3	CROSS CONNECTION LINK STRIP (2 HOLE)	82995500A
16	10	CONNECTING PIN	82995600A
17	1	TRANSFORMER BOX COVER	82993400A
18	1	TRANSFORMER	82988600A
19	8	HHCS, SS, DIN 933 M6 X 12MM	82712300A
20	8	LOCK WASHER, SS, DIN 127A M6	82711000A
21	8	FLAT WASHER, SS, DIN 127A M6	82709700A
22	2	JUMPER WIRE 16 GA. RED MTW 4" LONG	4331166222
23	1	FUSE CARRIER	82989500A
24	70"	CORD 12/3 TYPE SJ	82798800A
25	45"	CORD 16/2	500215282
26	1	TRANSFORMER BOX SIDE - RH	82993300A
27	1/10th OF A FULL CARD	MARKERS - 645 TRANSFORMER TERMINAL	82997100A
28	1	TRANSFORMER BOX SIDE - LH	83002500A
29	1	TRANSFORMER BOX MOUNTING PLATE	82998500A

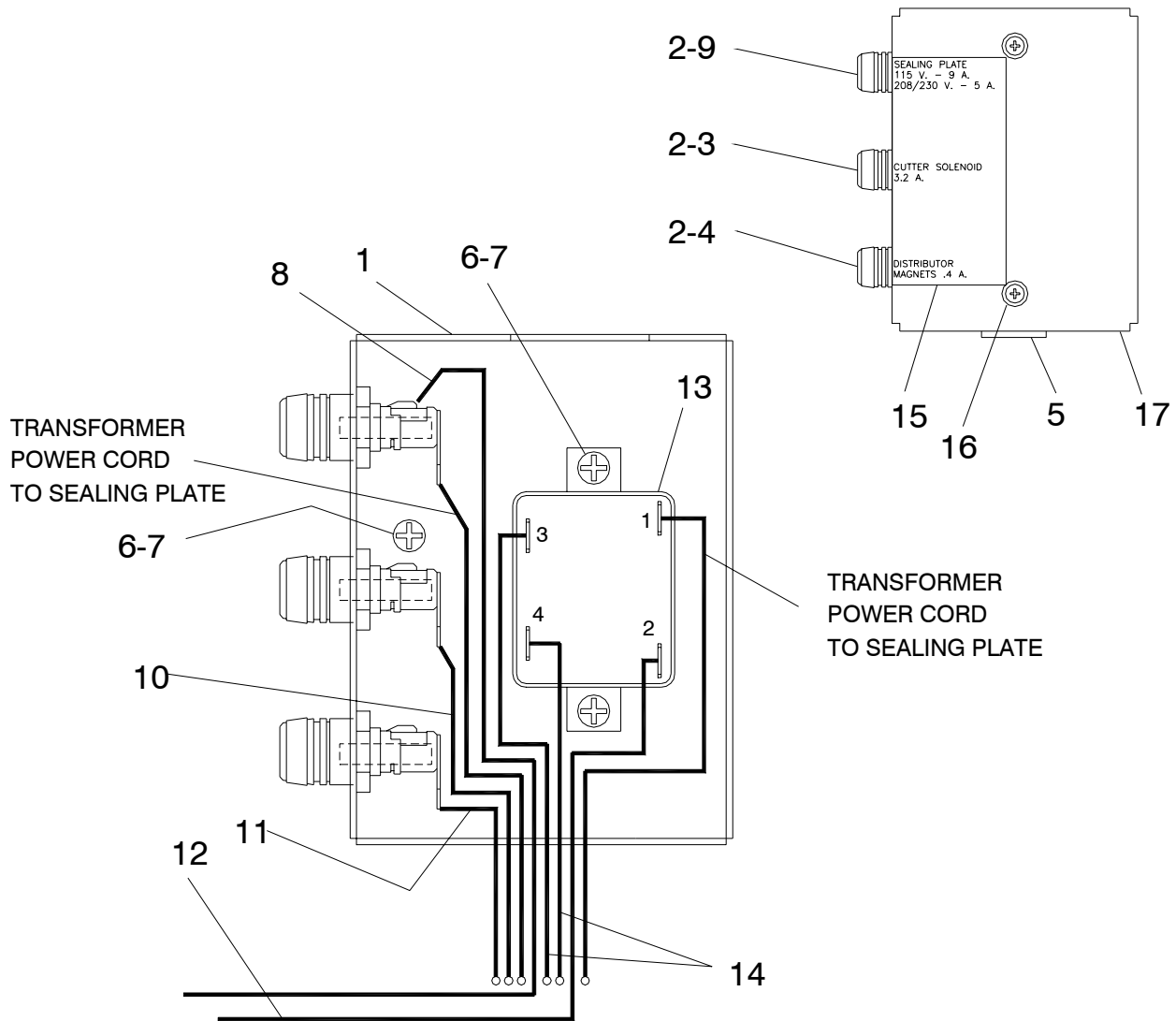
Heater



Heater Parts List

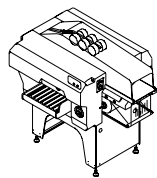
ITEM	QTY.	DESCRIPTION	PART NUMBER
1	4	SCREW #6-32 X 2-3/4" ROUND HEAD MACHINE	82997300A
2	1	HEATER	82988900A
3	1	FAN	82988700A
4	1	FAN FINGER GUARD	81832100A
5	4	HEX NUT #6-32 STAINELSS STEEL	R00813050
6	1	FAN PLUG ASSEMBLY	81826800A
7	1	INSULATED SLIP ON TERMINAL	82995800A
8	2	PHIL PAN HEAD SCREW, STAINLESS STEEL M4 X 10MM LONG	82714900A
9	2	LOCK WASHER, STAINLESS STEEL, M4	82710800A
10	1	SOLID STATE RELAY	82990800A
11	2	HEX HEAD CAP SCREW, M6 X 30MM LONG STAINLESS STEEL	82892200A
12	2	LOCK WASHER, STAINLESS STEEL M6	82711000A
13	2	HEX NUT, STAINLESS STEEL, M6	82708600A
14	1	BRACKET - FAN AND HEATER MOUNTING	82977700A

Fuse Box



Fuse Box Parts List

ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	FUSE BOX	82990900A
2	3	FUSE HOLDER	82466700A
3	1	FUSE 3.2 AMP	82895900A
4	1	FUSE .4 AMP	82896000A
5	1	SNAP BUSHING	82784000A
6	2	CRHCS, SS, DIN 7985A M4 X 6MM LONG	82715100A
7	2	LOCK WASHER, SS, DIN 127B M4	82710800A
8	1	WIRE ASSEMBLY	82994100A
9	1	FUSE - MDL 9	82995100A
10	REF.	POWER CORD CN3	82848200A
11	REF.	POWER CORD CN2	82848300A
12	1	WIRE ASSEMBLY	82994300A
13	1	SOLID STATE RELAY	82990800A
14	REF.	SIGNAL CABLE	82990500A
15	1	DECAL - XL FUSES	82998000A
16	2	PHIL PAN HD SCREW, SS, M4 X 10MM LONG	82714600A
17	1	COVER FUSE BOX	82991000A

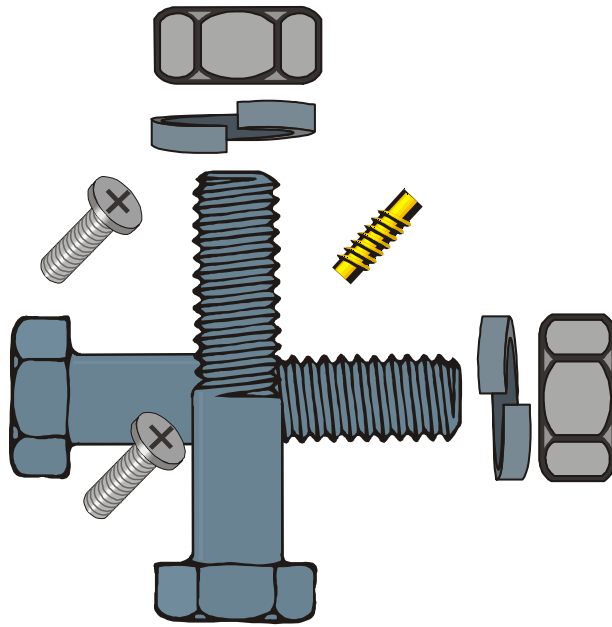


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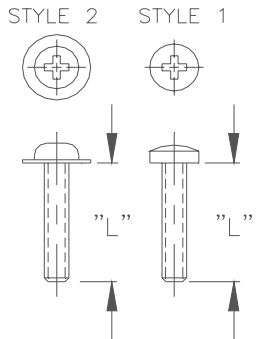
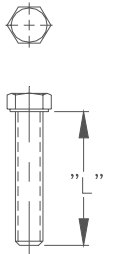
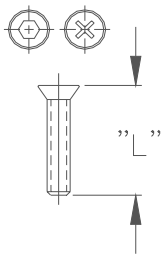
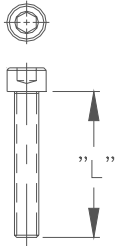
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Hardware

This chapter contains specifications of hardware used on the Model 645.



Hardware



SOCKET HEAD CAP SCREWS

"L"	M3	M4	M5	M6	M8
8	----	82713100A	----	82714000A	----
10	----	82713200A	82713500A	----	----
12	----	82713300A	82713600A	----	----
16	----	82713400A	82713700A	82714100A	----
20	----	----	82713800A	82714200A	----
25	82825000A	----	82713900A	82714300A	----
30	----	----	----	----	82825200A
50	----	----	----	----	82714500A

FLAT HEAD CAP SCREWS

"L"	M3	M4	M5	M6
10	82716700A	82716800A	----	----
12	----	82825300A SOCKET HEAD	82717000A	----
16	----	82716900A	82717100A	82716500A SOCKET HEAD
20	----	----	82717200A	82716600A SOCKET HEAD
25	----	----	82825400A	----

HEX HEAD CAP SCREWS

"L"	M4	M5	M6
	----	----	----
10	----	82712800A	----
12	----	82712000A	82712300A
16	82712700A BRASS	82712100A	82712400A
20	82824900A BRASS	82712200A	82712500A
25	----	----	82712600A
40	----	----	82711800A
60	----	----	82711900A

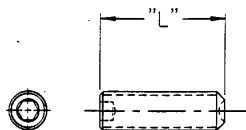
CROSS RECESSED PAN HEAD MACHINE SCREWS

"L"	M3	M4	M5	M6
6	82714800A	82715100A	----	----
8	----	82715200A	----	----
10	82714900A	82715300A 82714600A*	82715900A	----
12	----	82715400A	82716000A	82822900A
16	82715000A	82715500A	82716100A 82714700A*	----
20	----	82715600A	82716200A	----
25	----	82715700A	82716300A	----
30	----	82715800A	----	----
35	----	----	82716400A	----

*STYLE 2

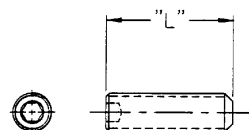
CUP POINT SOCKET SET SCREWS

"L"	M5	M6
6	82911600A	82762900A
8	82911700A	-----



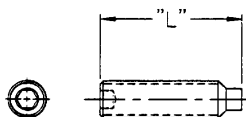
FLAT POINT SOCKET SET SCREWS

"L"	M3	M4	M5	M6
4	82717500A	82717800A	-----	-----
5	-----	82717900A	82717000A	-----
6	82717600A	82716900A	82718000A	82718300A
8	-----	-----	82718100A	82718400A
10	82717700A	-----	82718200A	-----



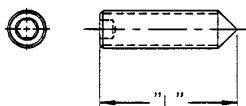
DOG TIP SET SCREWS

"L"	M4	M5
8	82718500A	-----
16	-----	82718600A



CONE POINT SET SCREWS

"L"	M4	M5
8	82718700A	82718800A



HEX NUTS

Style	M3	M4	M5	M6	M8	M10	M12
DIN-934 HEX. SS	82708300A	82708400A	82708500A	82708600A	82708700A	82708800A	82708800A
DIN 985 HEX, SS SELF LOCKING	-----	82709000A	82709100A	82709200A	-----	-----	-----
DIN 934 HEX, BRASS	-----	82708900A	-----	-----	-----	-----	-----
DIN 939	-----	-----	-----	82851200A	82701800A	-----	-----
HEX JAM SS	-----	-----	-----	-----	-----	82708200A	-----



LOCK WASHERS

M3	M4	M5	M6	M8
82710700A	82710800A	82710900A	82711000A	82711100A



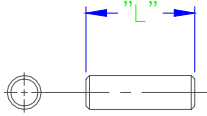
FLAT WASHERS



STYLE	M3	M4	M5	M6
DIN 125A, SS	82709400A	82709500A	82709600A	82709700A
DIN 124A BRASS	-----	82710100A	82710200A	-----
DIN 125A POLYIMIDE	-----	-----	82710400A	-----
DIN 9012B FENDER, SS	82824800A	82710500A	-----	82710600A

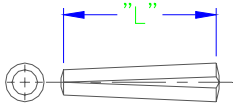
STYLE	M8	M10	M12	M20
DIN 125A, SS	82709800A	-----	82709900A	82710000A
DIN 125A POLYIMIDE	-----	82710400A	-----	-----

DOWEL PINS



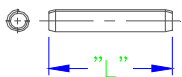
"L"	2MM DIA.	3MM DIA.	4MM DIA.	5MM DIA.	6MM DIA.	8MM DIA.	10MM DIA.
12MM	-----	82702300A	-----	-----	-----	-----	-----
16MM	-----	82702400A	82702600A	82702800A	-----	82703500A	-----
20MM	82702200A	82702500A	-----	82702900A	82703400A	82703600A	82703700A
24MM	-----	-----	82702700A	82703000A	-----	-----	-----
25.8	-----	-----	-----	82762300A	-----	-----	-----
36MM	-----	-----	-----	82703100A	-----	-----	-----
40MM	-----	-----	-----	82703200A	-----	-----	-----
50MM	-----	-----	-----	82703300A	-----	-----	-----

GROOVED PIN (FULL LENGTH TAPER GROOVED)



"L"	4MM DIA.	5MM DIA.
30MM	82824500A	82705000A
35MM	82824300A	-----
40MM	82704900A	-----

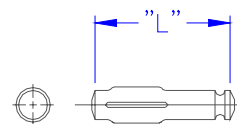
SPIRAL PIN



"L"	3MM DIA.	5MM DIA.
10MM	82705300A	82709500A
16MM	82705400A	-----
20MM	82705500A	-----
36MM	-----	82705600A
40MM	-----	82863500A

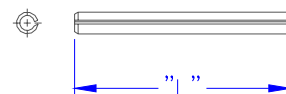
SPRING HOOK

"L"	3MM DIA.	4MM DIA.	5MM DIA.
12MM	-----	82706000A	-----
16MM	82705700A	82706100A	-----
20MM	82705800A	82706200A	-----
25MM	-----	82706300A	82706500A
30MM	82705900A	-----	-----
34MM	-----	-----	-----



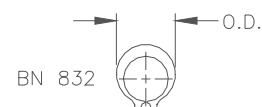
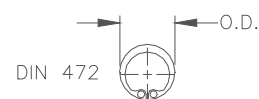
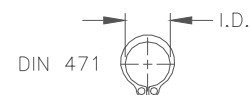
ROLL PIN (SPRING PIN)

"L"	2MM DIA.	3MM DIA.
20MM	82705100A	-----
40MM	-----	828244000A



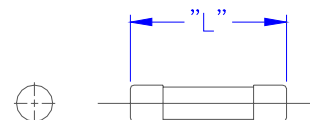
RETAINING/GRIP RINGS

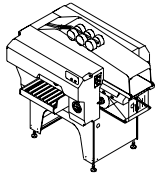
I.D./O.D.	DIN 471 NORMAL TYPE (EXTERNAL)	DIN 472 NORMAL TYPE (INTERNAL)	BN 832 FOR SHAFTS WITHOUT GROOVES
3MM	-----	-----	82707600A
5MM	82706700A	-----	82707700A
6MM	82706800A	-----	82707800A
8MM	82706900A	-----	82707900A
10MM	82707000A	-----	82708000A
15MM	82707100A	-----	82824700A
20MM	82707200A	-----	-----
30MM	-----	82707300A	-----
35MM	-----	82707400A	-----



FUSES

RATING	5 X 20 MM	0.25 X 1.25"
0.4A FA	82896600A	82896000A
1.6A FA	14702100A	-----
3.2A FA	82896500A	82895900A
16A FA	-----	14342600A
20A FA	-----	82895800A





For
Your
Notes

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