

645

Solo XL Wrapper Parts Catalog

For 645-10X3 Series

This manual is valid for SOLO® XL Wrappers 1XXX Series Only

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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
1900 Polaris Parkway
Columbus, Ohio USA 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 his own expense.

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

PRECAUTIONS

READ this manual BEFORE operating or servicing this equipment.

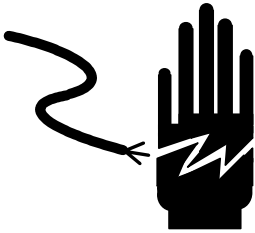
FOLLOW these instructions carefully.

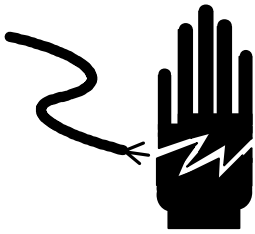
SAVE this manual for future reference.

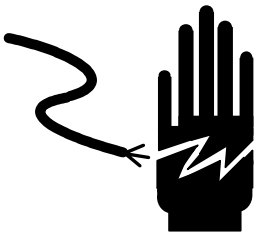
DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

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.

	 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.

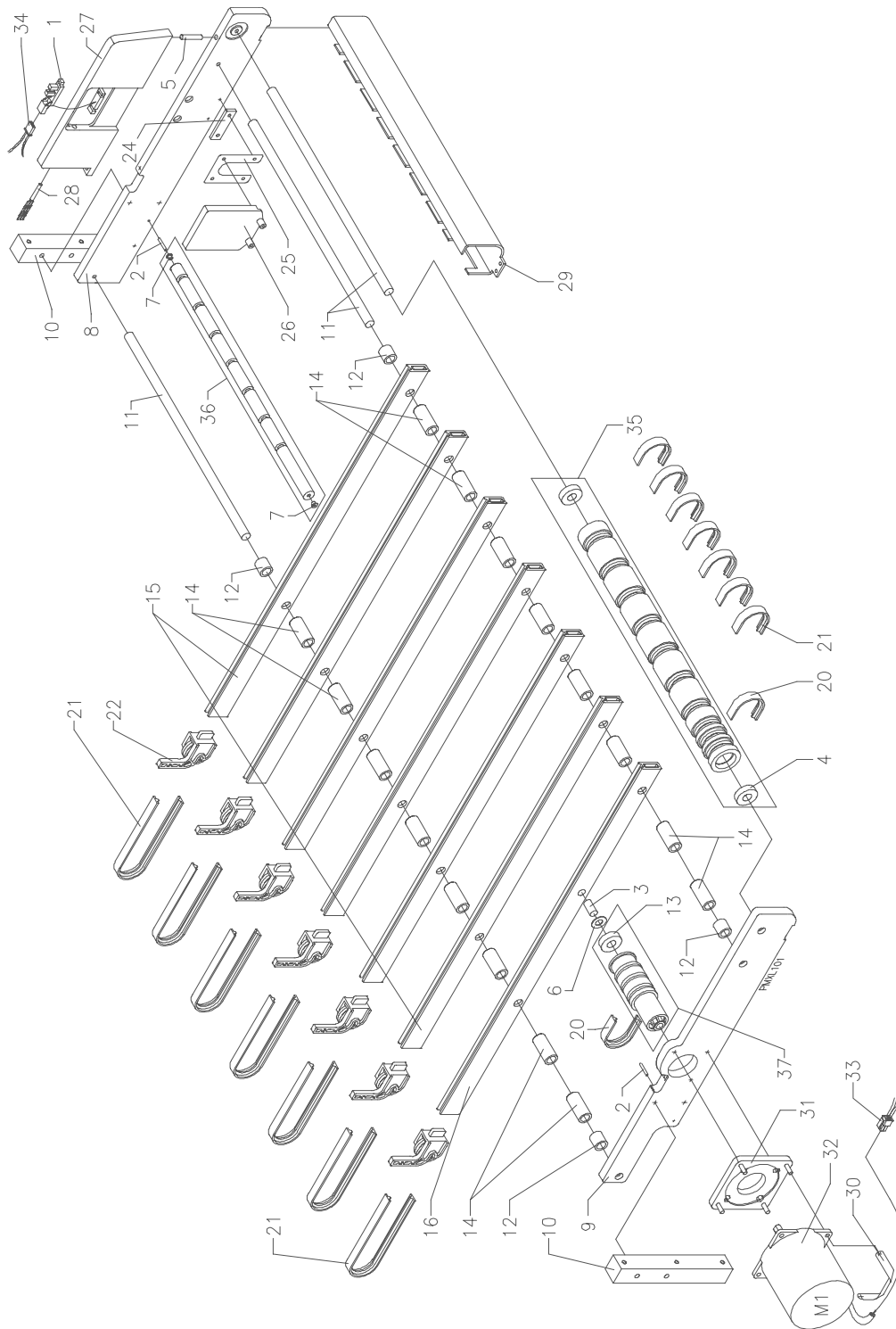
 CAUTION
BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT, ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS BEFORE ANY CONNECTIONS OR DISCONNECTIONS ARE MADE. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN DAMAGE TO,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

 CAUTION
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.

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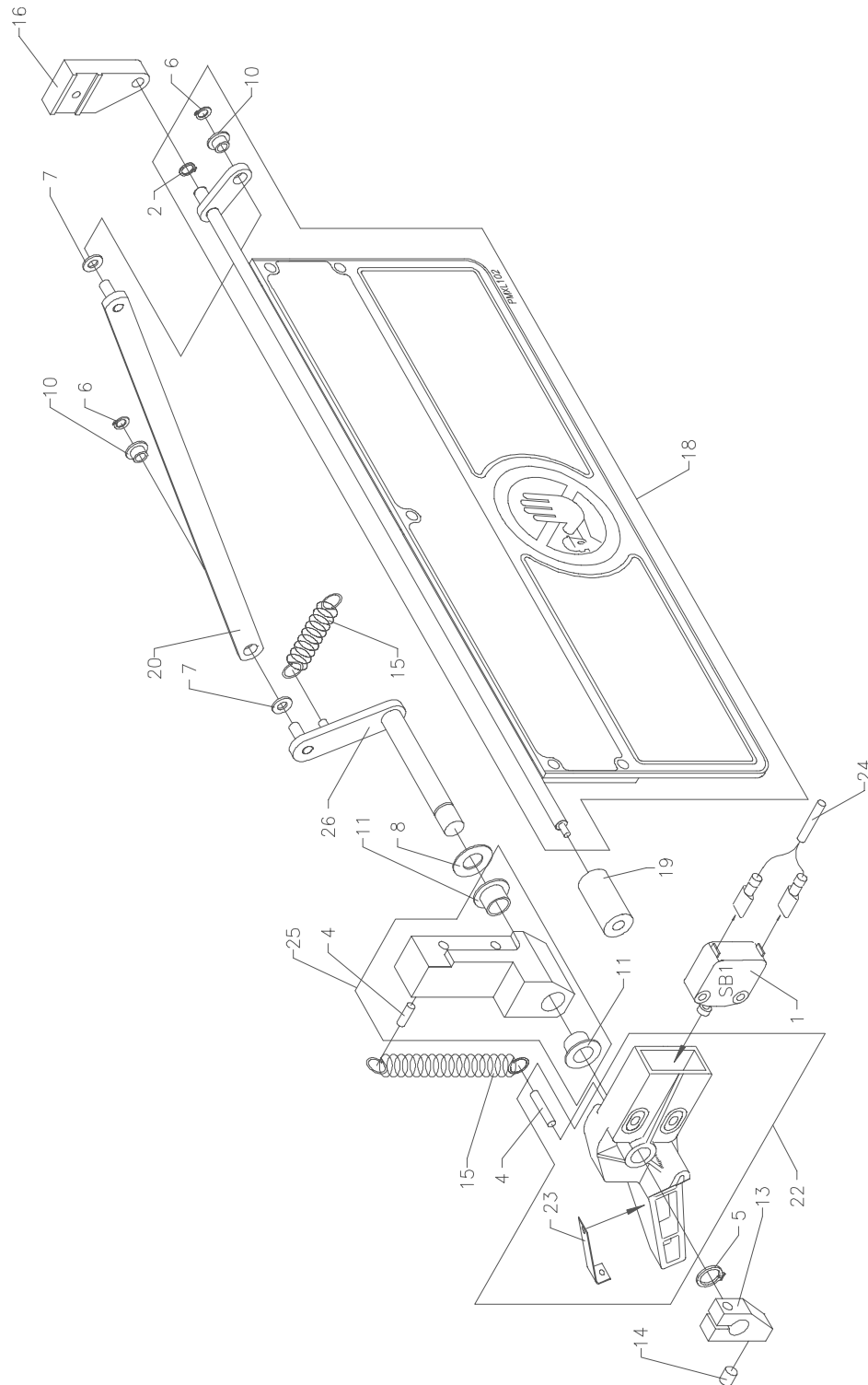
Infeed



Infeed

ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
2	82702500A	DOWEL PIN, 3MM D X 20MM L
3	82703700A	DOWEL PIN, 10MM D X 20MM L
4	82704600A	BALL BRG, 12MM ID X 28MM OD X 8MM
5	82705200A	SPIRAL PIN, DIN 1446B-6MM D X 30MM
6	82711700A	WASHER, BRASS, 10.5 ID X 20 ID X .8
7	82721100A	IGLIDE FLNG BRG, 3MM ID X 4.5MM ODX5
8	82826300A	INFEED FRAME-RIGHT
9	82722600A	LEFT SIDE PLATE, ALUM, INFEED
10	82722700A	SUPT BLOCK, ALUM, INFEED
11	82826400A	INFEED CROSSBRACE
12	82826500A	INFEED SPACER 12ID X 17OD X 25L
13	82704500A	BALL BRG, 10MM ID X 26MM OD X 8MM
14	82723100A	DELIN SPACER, 12MM ID X 17MM OD X 38
15	82826600A	BELT GUIDE - 2 HOLE
16	82826700A	BELT GUIDE - 3 HOLE
20	82723700A	BELT, INFEED DRIVE
21	82826900A	INFEED TRANSPORT BELT
22	82723900A	PULLEY ASSB
24	82724100A	SPRING SPACER, AL, INFEED
25	82724200A	START BUTTON SPRING, INFEED
26	82724300A	START BUTTON, WH. DELIN, INFEED
27	82724400A	START BUTTON SUPPORT, AL, INFEED
28	82724500A	START BUTTON SENSOR CABLE, INFEED
29	82827100A	BELT GUARD-INFEED
30	82742000A	GROUND STRAP
31	82756300A	ISOLATOR - MOTOR MOUNT
32	82765900A	STEPPER MOTOR-3NM
33	82848300A	POWER CABLE CN2
34	82849100A	SIGNAL CABLE
35	82874500A	DRIVE ROLLER ASSB - 10 GROOVE
36	82874600A	IDLER ROLLER ASSB - 7 GROOVE
37	82874700A	DRIVE PULLEY ASSB - 3 GROOVE

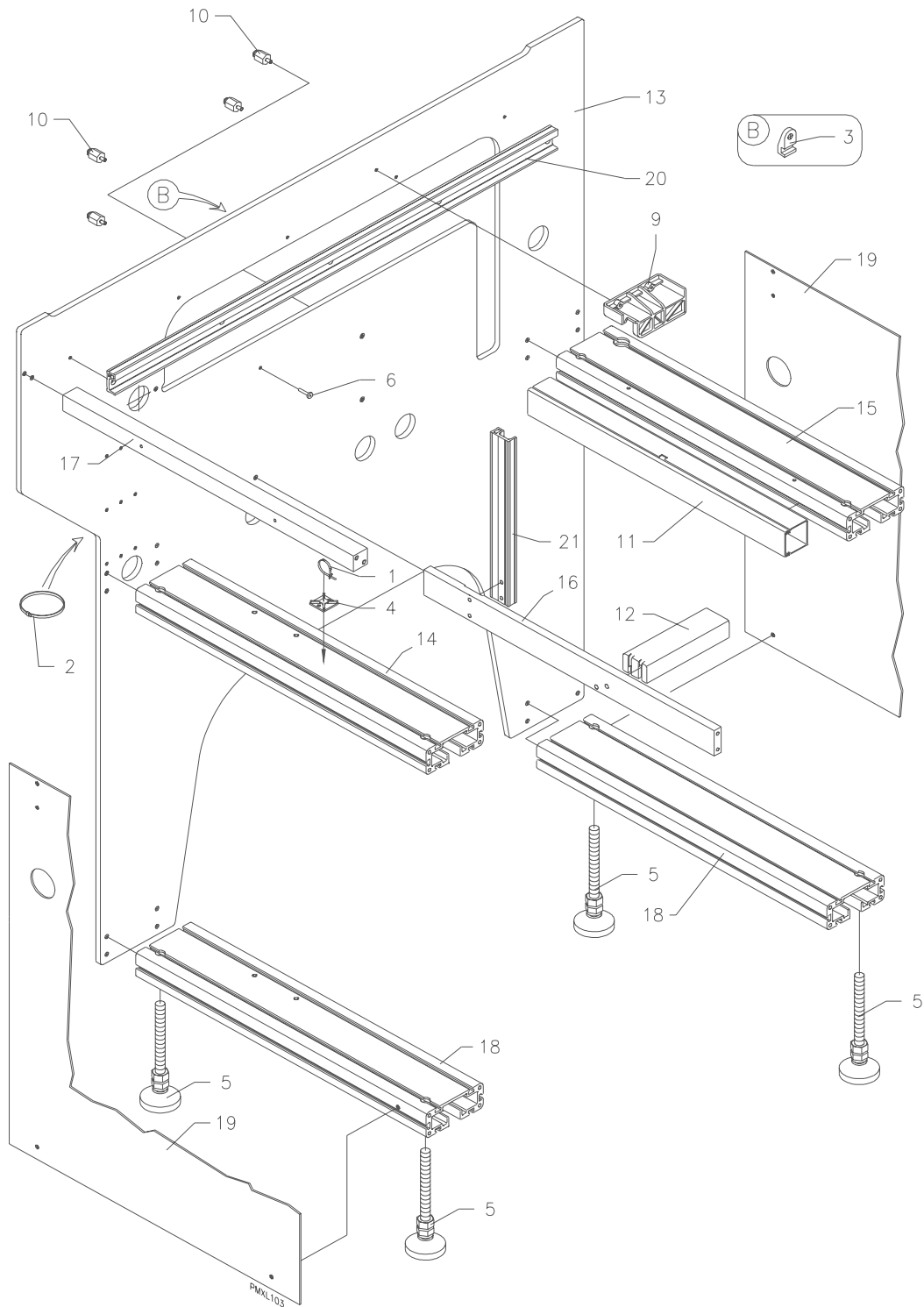
Infeed Door



Infeed Door

ITEM	PART #	DESCRIPTION
1	82700600A	MICRO SWITCH
2	82706800A	SNAP RING, EXTERNAL, DIN 471-6MM ID
4	82706200A	SPRING HOOK, DIN 1469C-4MM D X 20MM
5	82707000A	SNAP RING, EXTERNAL, DIN 471-10MM ID
6	82707700A	GRIP RING, EXTERNAL, BN 832-5MM ID
7	82710300A	WASHER, POLYAMIDE, DIN 125A - M5
8	82711700A	WASHER, BRASS, 10.5 ID X 20 ID X .8
10	82721200A	IGLIDE FLNG BRG, 5MM IDX7MM ODX5MM
11	82721400A	IGLIDE FLNG BRG, 10MM IDX12MM ODX9
13	82724800A	ALUM DOOR ACTUATOR STOP, INFEED
14	82724900A	DOOR ACTUATOR BUMPER, INFEED
15	82725000A	SPRING, L0=53.2 L1=117.8 K=0.33N/MM
16	82725100A	BEARING, DOOR PIVOT
18	82875200A	DOOR ASSB - XL
19	82827600A	DOOR SPACER
20	82827700A	DOOR CONNECTING ROD
22	82862400A	DOOR ACTUATOR ASSB
23	82765200A	WEAR STRIP
24	82848200A	POWER CABLE CN3
25	82875000A	DOOR ACTUATOR PIVOT BLOCK ASSB
26	82875100A	DOOR ACTUATOR SHAFT ASSB

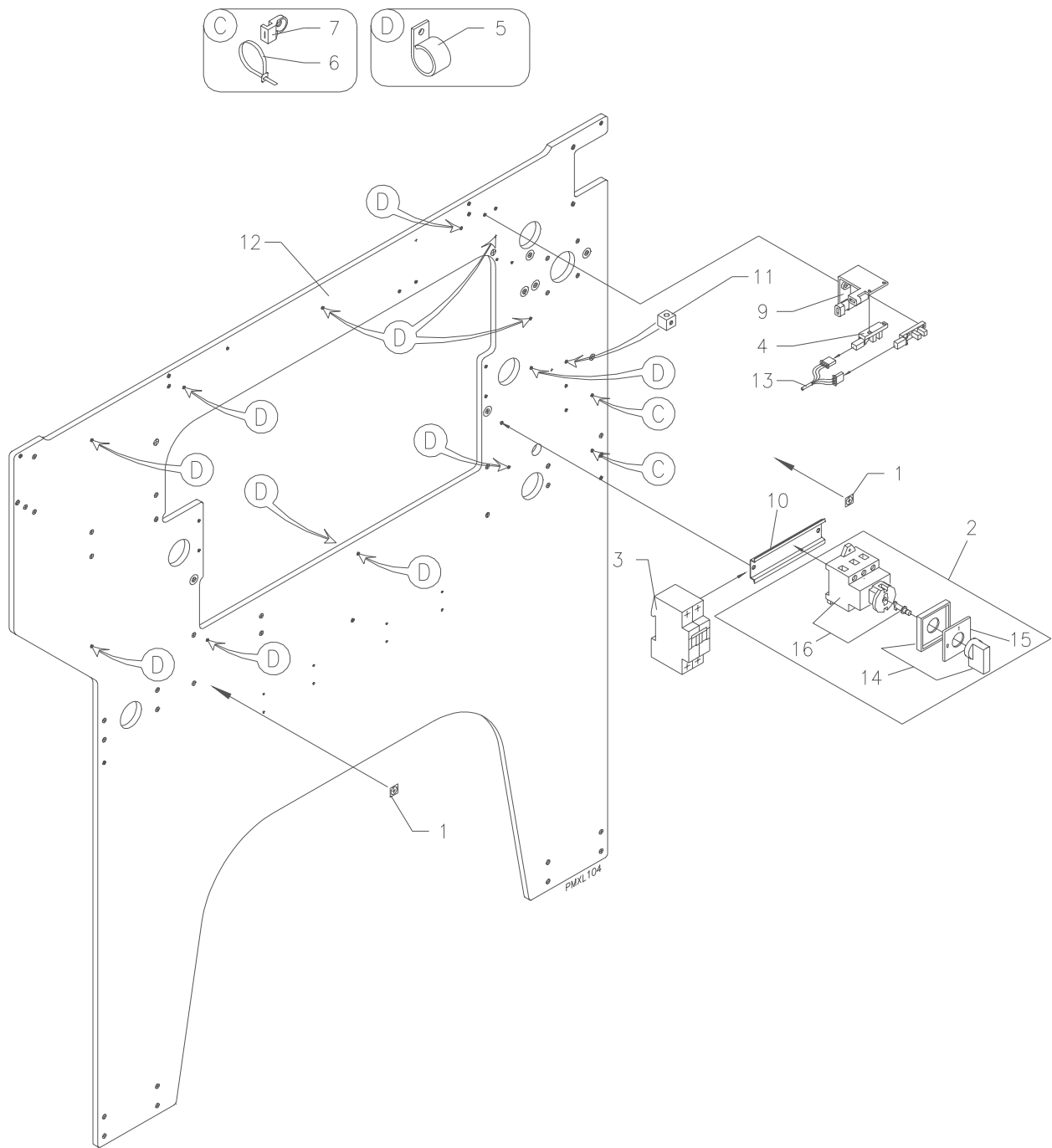
Frame



Frame

ITEM	PART #	DESCRIPTION
1	A80655500A	CABLE TIE
2	81253900A	TY-WRAP
3	82701400A	CABLE CLAMP
4	A80690800A	PLATE-TY WRAP MTG
5	82721700A	SWIVEL FOOT, 50MM D, M12 X 123MM
6	82715700A	CRHCS, SS, DIN 7985A - M4 X 25 MM
9	82734700A	CAM, ECCENTRIC POSITIONING
10	82741900A	SUPT, ELECTRONIC RACK
11	82742700A	CABLE CARRIER, 40 X 40 X 450MM
12	82755700A	STOP - LIFTER RELATCHING
13	82827800A	FRAME PLATE-REAR
14	82828000A	UPPER CROSSBAR-LEFT
15	82828100A	UPPER CROSSBAR-RIGHT
16	82828200A	CENTER CROSS BAR
17	82828300A	PRESSURE ROLLER CROSS BAR
18	82828400A	LOWER CROSS BAR
19	82828800A	FRAME END PANEL
20	A82830800A	CENTER CLAMP GUIDE - NO LIP
21	A82838600A	LIFTER GUIDE - NO LIP

Frame

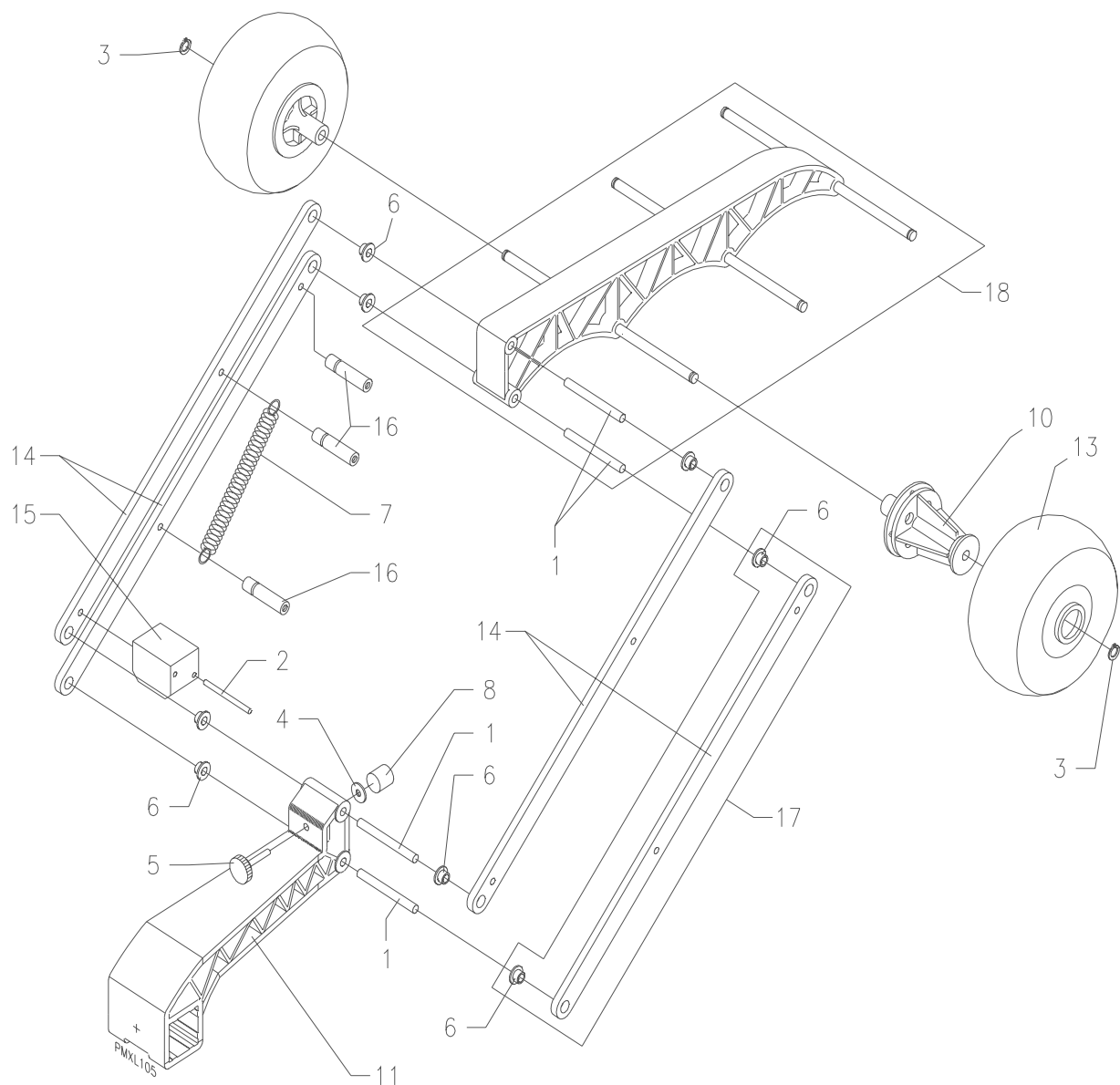


Frame

ITEM	PART #	DESCRIPTION
1	82700100A	GROUND DECAL
2	82700200A	POWER SWITCH KOP
3	82700300A	CIRCUIT BREAKER 25A DOUBLE POLE
4	82700500A	PHOTO INTERRUPT SENSOR
5	82700900A	CABLE CLAMP, 16MM ID
6	81253900A	TY-WRAP
7	82701400A	CABLE CLAMP
9	82732100A	ENCODER SENSOR SUPPORT
10	82814800A	DIN RAIL - SWITCH
11	82765500A	GROUND LUG
12	82827900A	FRAME PLATE-FRONT
13	82849100A	SIGNAL CABLE
14	82906600A	FRAME AND KNOB - MAIN POWER SWITCH †
15	82906500A	LEGEND PLATE - MAIN POWER SWITCH †
16	82906700A	SWITCH - MAIN POWER †

† Individual parts for the “Technoelectric” brand switch are no longer available instead, order KOP 82700200A.

Pressure Wheels



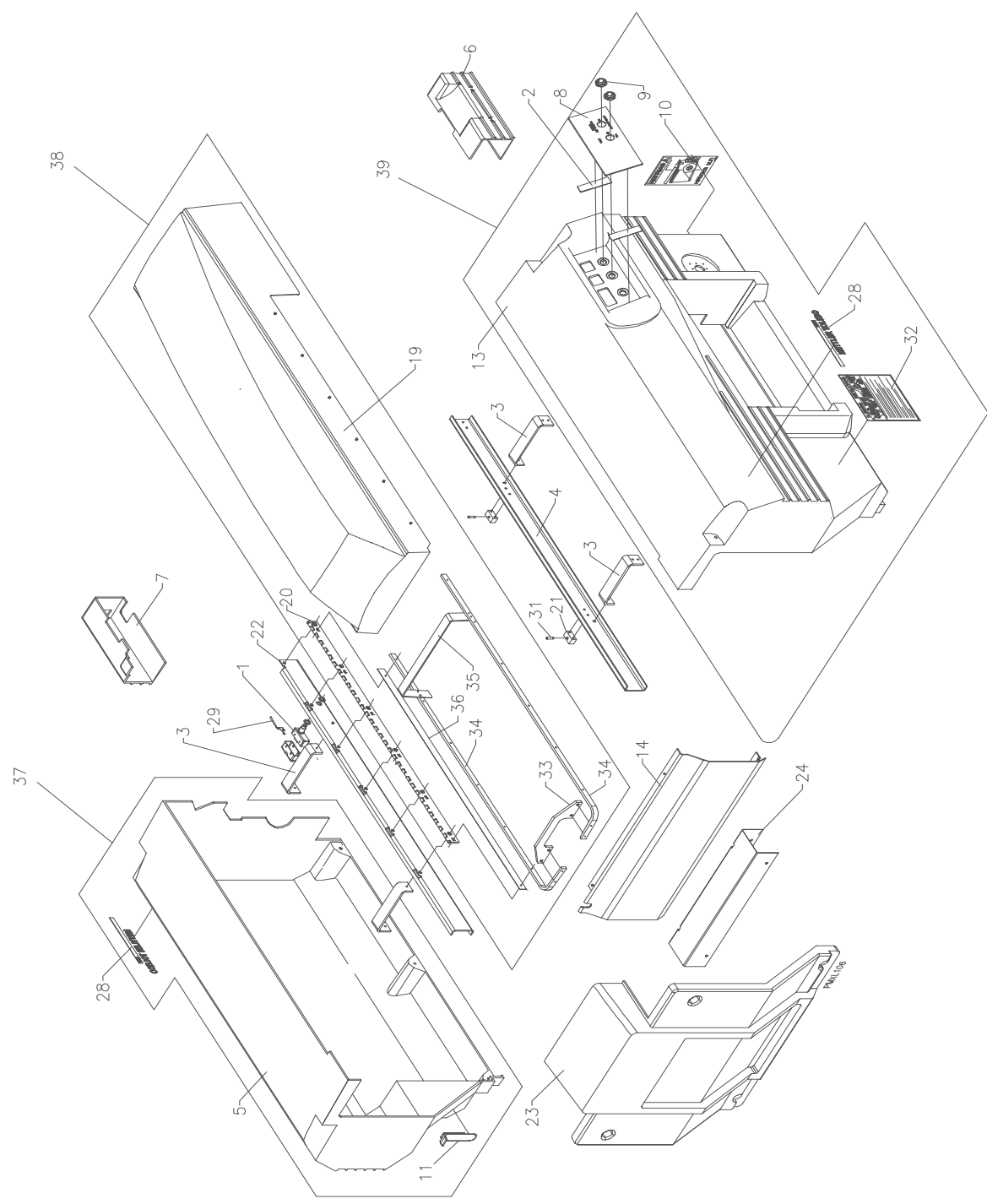
Pressure Wheels

ITEM	PART #	DESCRIPTION
1	82703300A	DOWEL PIN, 5MM D X 50MM L
2	82824400A	ROLL PIN, HVY, DIN 1481-3MMX40MM L
3	82707800A	GRIP RING, EXTERNAL, BN 832-6MM ID †
3	82706800A	SNAP RING, EXTERNAL, DIN 471-6MM ID ‡
4	82710500A	FENDER WASHER, SS, DIN 9021B - M4
5	82914400A	ADJUSTMENT SCREW - PRESSURE ROLLER
6	82721200A	IGLIDE FLNG BRG, 5MM IDX7MM ODX5MM
7	82725000A	SPRING, L0=53.2 L1=117.8 K=0.33N/MM
8	82726400A	BUMPER-PRESSURE ROLLER
10	82726600A	HUB-PRESSURE ROLLER
11	82765300A	SUPPORT - PRESSURE WHEEL
13	82727000A	TIRE-PRESSURE ROLLER
14	82828500A	PRESSURE ROLLER LINK
15	82828600A	PRESSURE ROLLER STOP
16	82828700A	SPRING HOOK
17	82875500A	PRESSURE ROLLER LINK ASSB - XL
18	82875600A	ROLLER CARRIER ASSB

† For shafts without grooves.

‡ For shafts with grooves.

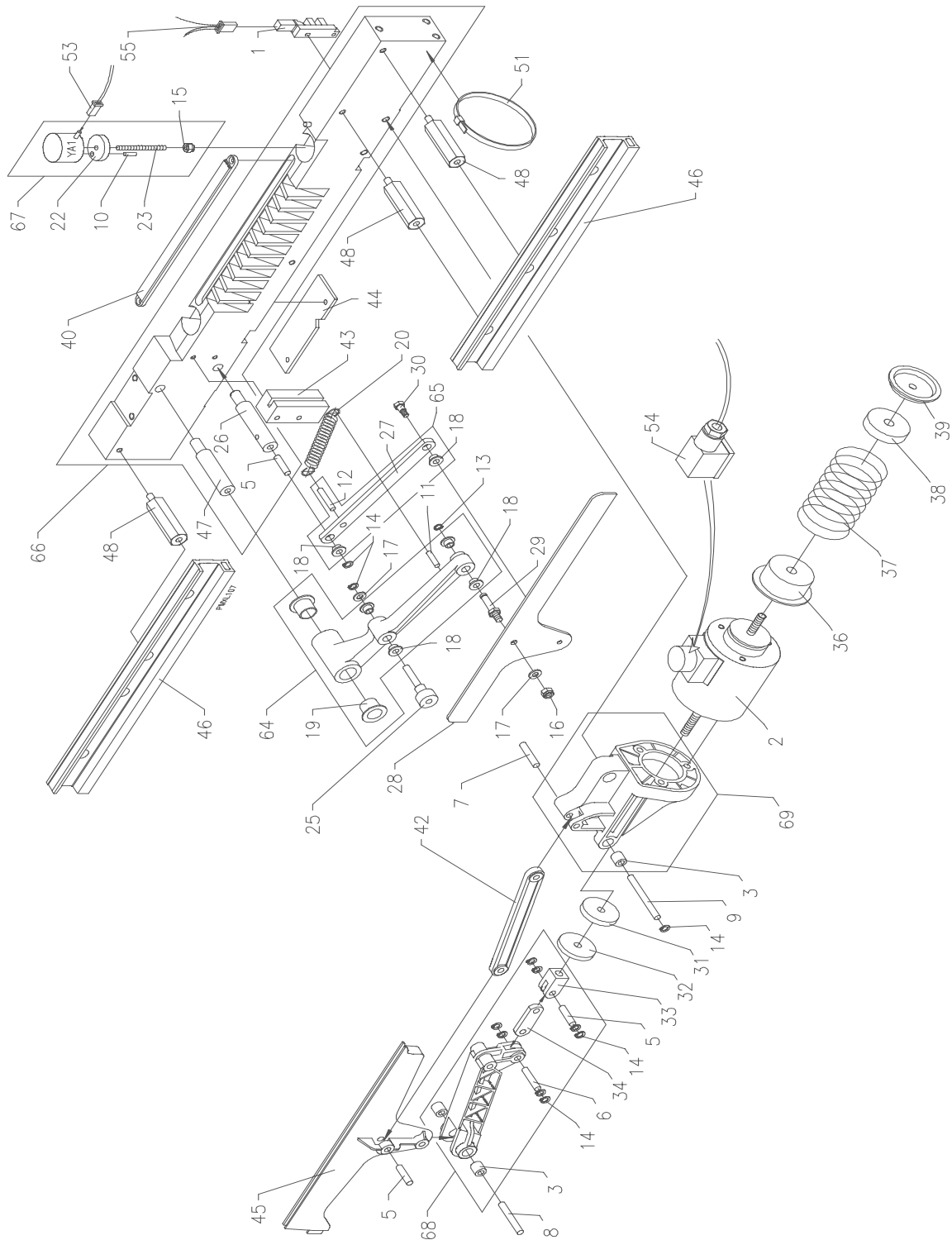
Covers



Covers

ITEM	PART #	DESCRIPTION
1	82517000A	INTERLOCK SWITCH
2	82822800A	LENS MOUNTING TAPE
3	82864400A	SUPPORT - 645 XL COVER FRAME
4	82865000A	FRONT COVER FRAME - 645 XL
5	82812700A	REAR COVER - 645 XL
6	82812900A	FRONT FOLDER COVER - 645 XL
7	82812800A	REAR FOLDER COVER - 645 XL
8	82864300A	SOLO XL DISPLAY LENS
9	82727700A	PUSH BUTTON GROMMET
10	82795900A	DECAL - FILM INSERTION
11	82727900A	SERIAL PORT ACCESS COVER
13	82812500A	FRONT COVER - 645 XL
14	82829700A	INTERIOR SHIELD
19	82813000A	TOP COVER - 645 XL
20	82829900A	HOOD HINGE
21	82770900A	HOOD STOP, 645 COVER
22	82865100A	REAR COVER FRAME - 645 XL
23	82812600A	LEFT END COVER - 645 XL
24	82830300A	BLOWER HEATER SUPT REV 2
28	82790300A	DECAL - SOLO
29	82848200A	POWER CABLE CN3
31	82804300A	HOOD BUMPER
32	82848400A	DECAL - CLEANING INSTRUCTIONS
33	82800800A	HOOD UNION PLATE
34	82848600A	645 XL HOOD FRAME
35	82848700A	645 XL HOOD BRACE
36	82865200A	HOOD MOUNTING CUSHION
37	82907500A	REAR COVER ASSB - 645 XL
38	82907600A	TOP COVER ASSB - 645 XL
39	82907700A	FRONT COVER ASSB - 645 XL

Distributor / Cutting Assembly



Distributor / Cutting Assembly

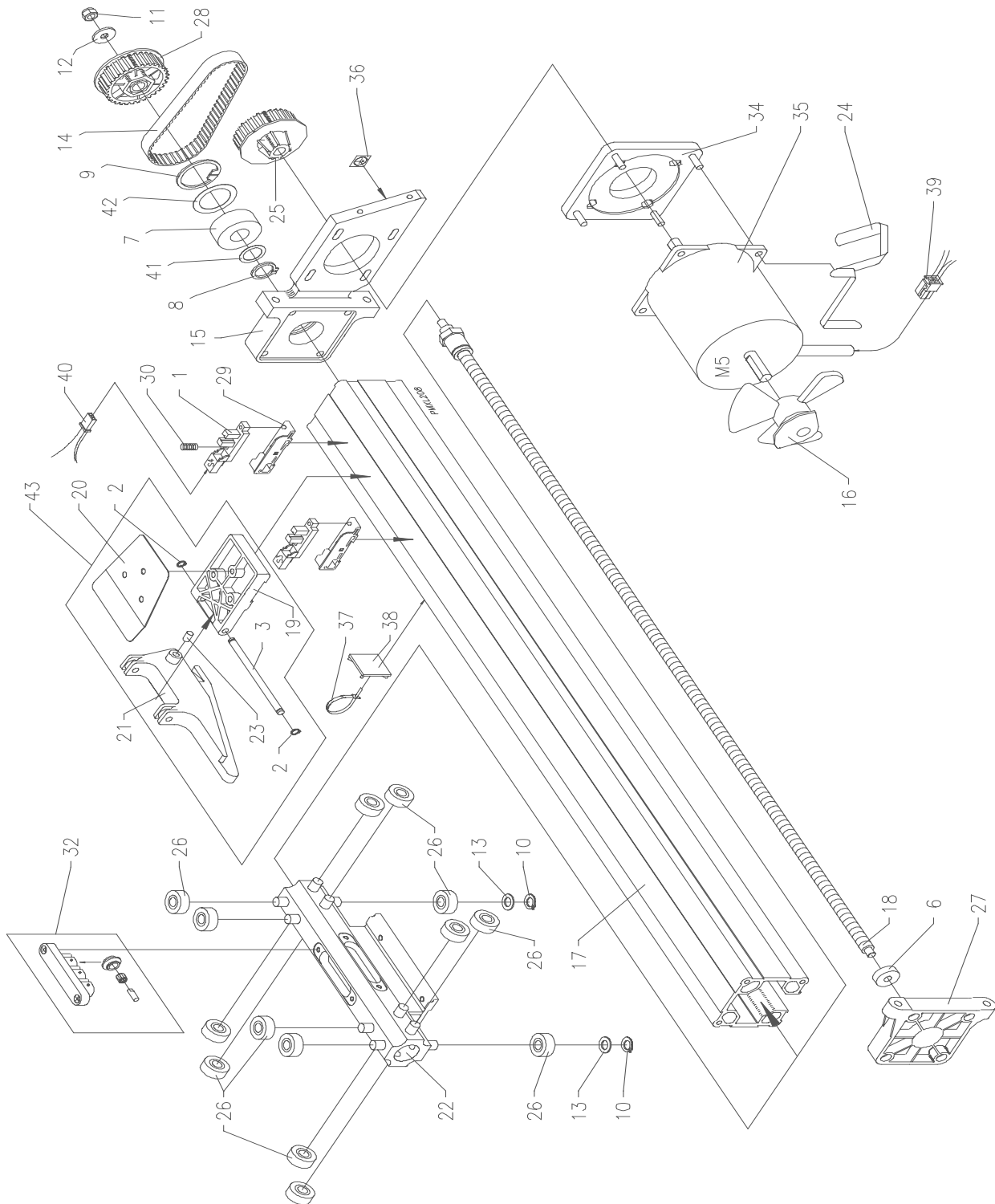
ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
2	82875800A	KNIFE SOLENOID (40% DUTY) †
3	82701700A	ROLLER BRG, 5MM ID X 9MM OD X 9MM
5	82702900A	DOWEL PIN, 5MM D X 20MM L
6	82703000A	DOWEL PIN, 5MM D X 24MM L
7	82762300A	DOWEL PIN, 5MM D X 25.8MM L
8	82703100A	DOWEL PIN, 5MM D X 36MM L
9	82703300A	DOWEL PIN, 5MM D X 50MM L
10	82705300A	SPIRAL PIN, SS, DIN 8750-3MM D X 10
11	82706100A	SPRING HOOK, DIN 1469C-4MM D X 16MM
12	82706300A	SPRING HOOK, DIN 1469C-4MM D X 25MM
13	82706700A	SNAP RING, EXTERNAL, DIN 471-5MM ID
14	82707700A	GRIP RING, EXTERNAL, BN 832-5MM ID
15	82709000A	SELF-LOCKING NUT, SS, DIN 985 - M4
16	82709100A	SELF-LOCKING NUT, SS, DIN 985 - M5
17	82709600A	WASHER, SS, DIN 125A - M5
18	82721200A	IGLIDE FLNG BRG, 5MM IDX7MM ODX5MM
19	82721500A	IGLIDE FLNG BRG, 12MM IDX14MM ODX12
20	82725000A	SPRING, L0=53.2 L1=117.8 K=0.33N/MM
22	82729600A	ELECTROMAGNET PAD
23	82729700A	ROD, ELECTROMAGNET ADJUSTMENT
24	82729800A	FILM LIFT LEVER
25	82729900A	LIFT PIN ASSB
26	82730000A	FILM LIFTER LINK FULCRUM
28	82830500A	FILM LIFTER
29	82730300A	FILM LIFTER WRIST PIN
30	82730400A	FILM LIFTER SHOULDER SCREW
31	82730500A	BUMPER, SOLENOID LOWER STOP
32	82730600A	SOLENOID LOWER STOP
33	82730700A	SOLENOID CLEVIS
34	82730800A	CHANNEL ACTUATOR LINK
36	82731000A	SOLENOID SPRING CAP
37	82731100A	SPRING, L0=82.5 L1=34.4 K=0.74N/MM
38	82731200A	BUMPER, SOLENOID UPPER STOP
39	82731300A	PLATE, SOLENOID UPPER STOP
40	82731400A	PAD, DISTRIBUTOR CLAMP
42	82731600A	CHANNEL PARALLEL LINK
43	82731700A	GUIDE, CHANNEL
44	82731800A	FILM FOLDER GUIDE
45	82731900A	CUTTING CHANNEL
46	A82837400A	SIDE CLAMP GUIDE - NO LIP
47	82750400A	FILM LIFTER LINK FULCRUM
48	82751900A	TRACK STANDOFF 5MM ID 15MM OD 44.5
49	82756900A	ELECTROMAGNET ASSB

ITEM	PART #	DESCRIPTION
51	81253900A	TY-WRAP
53	82848300A	POWER CABLE CN2
54	82848200A	POWER CABLE CN3
55	82849100A	SIGNAL CABLE
64	82859700A	FILM LIFT LEVER ASSB
65	82862700A	FILM LIFT LINK
66	82876000A	DISTRIBUTOR ASSB - XL
67	82859800A	ELECTROMAGNET ASSB
68	82909500A	CHANNEL DRIVE LEVER ASSB

† When replacing this item, the software revision must be at least A82868100A

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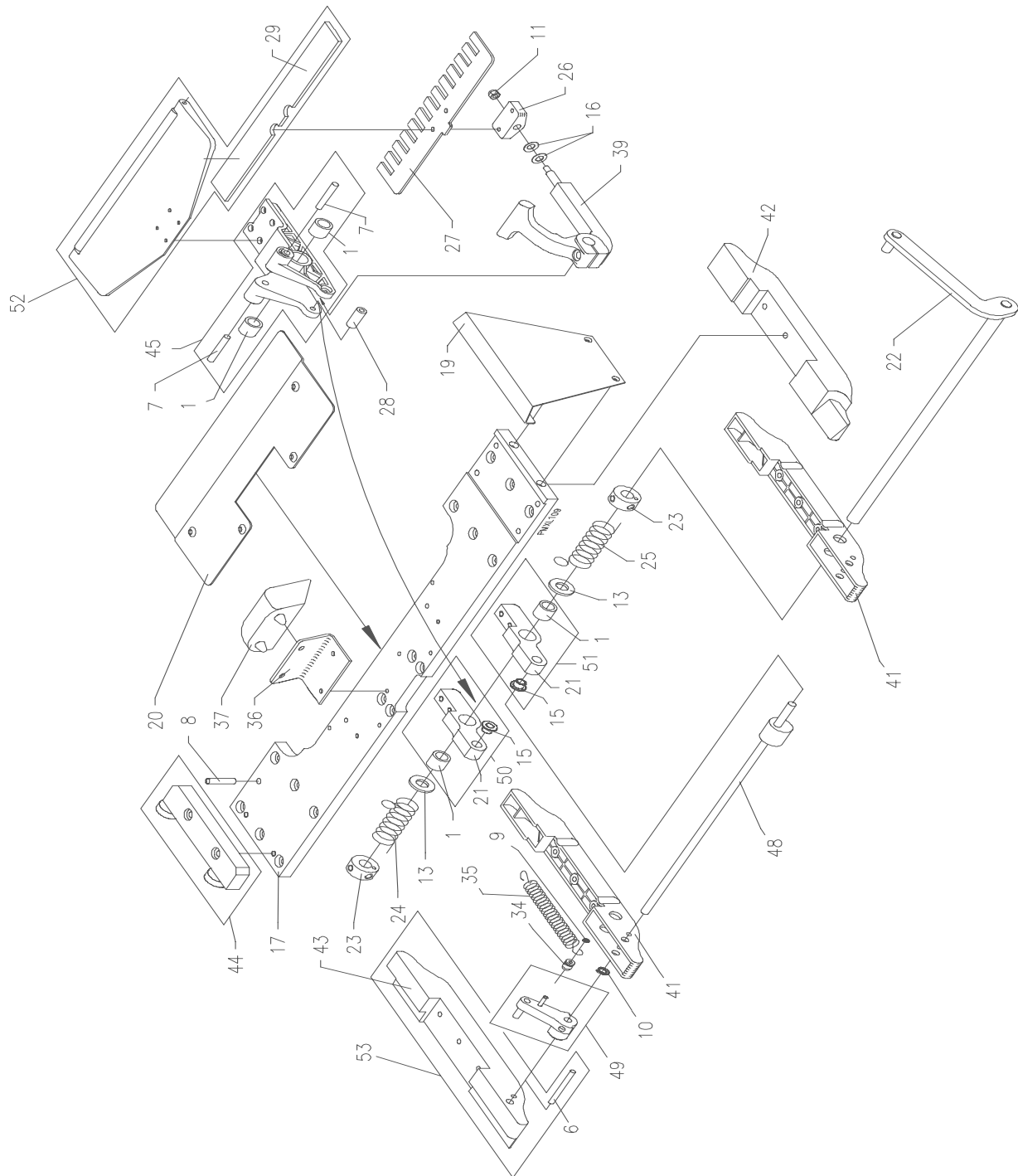
Center Clamp Actuator



Center Clamp Actuator

ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
2	82707700A	GRIP RING, EXTERNAL, BN 832-5MM ID
3	82914300A	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	82732000A	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	82732600A	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

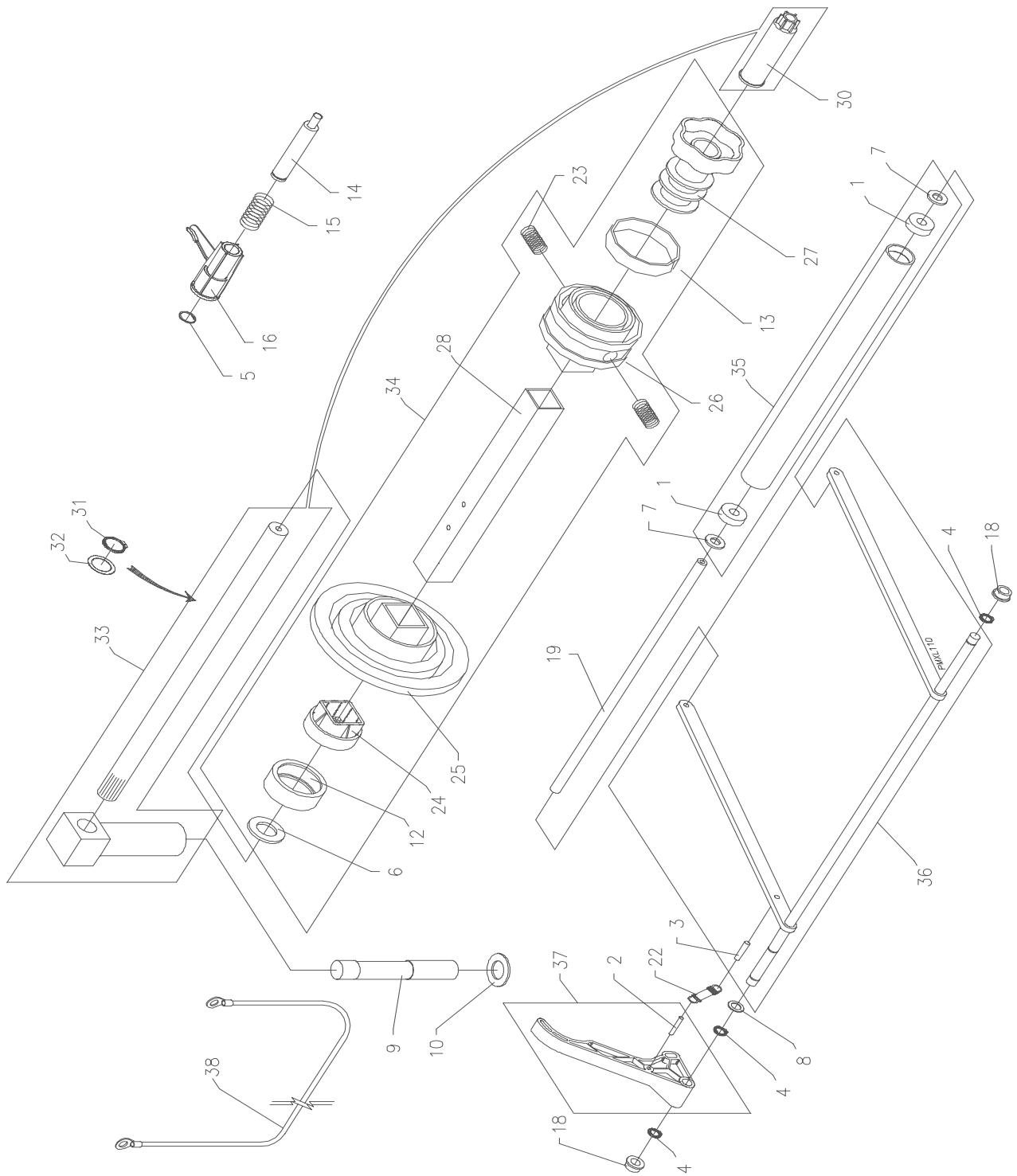
Center Clamp



Center Clamp

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
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, BN 832-3MM ID
10	82707800A	GRIP RING, EXTERNAL, BN 832-6MM ID
11	82709000A	SELF-LOCKING NUT, SS, DIN 985 - M4
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	TORSION SPRING, K=10.6NM/DEG. REAR
25	82733600A	TORSION SPRING, K=10.6NM/DEG. FRONT
26	82733700A	GRIPPER ROCKER BEARING - CTR CLAMP
27	82831200A	FILM GRIPPER
28	82733900A	ECCENTRIC FOLLOWER PIN - CTR CLAMP
29	82831300A	PAD - FILM GRIPPER UPPER JAW
34	82734500A	GRIPPER SPRING BEARING
35	82734600A	SPRING, L0=96.9 L1=183.9 K=0.34N/MM
36	82734800A	PUSHER SUPPORT
37	82734900A	PUSHER
39	82735200A	GRIPPER MOUNTING LEVER
40	82831600A	GRIPPER UPPER JAW
41	82735400A	SKATE - CENTER CLAMP
42	82831700A	GRIPPER SKATE-FRONT
43	82831800A	GRIPPER SKATE-REAR
44	82901200A	CENTER CLAMP GUIDE BEARING ASSB
45	82860600A	CENTER CLAMP UPPER JAW MOUNT ASSB
48	82876500A	ECCENTRIC ASSB - XL CENTER CLAMP
49	82860400A	ECCENTRIC DRIVE LEVER ASSB
50	82876600A	PIVOT ASSB - XL CENTER CLAMP, REAR
51	82876700A	PIVOT ASSB - XL CENTER CLAMP, FRONT
52	82894000A	UPPER JAW ASSB - XL CENTER CLAMP

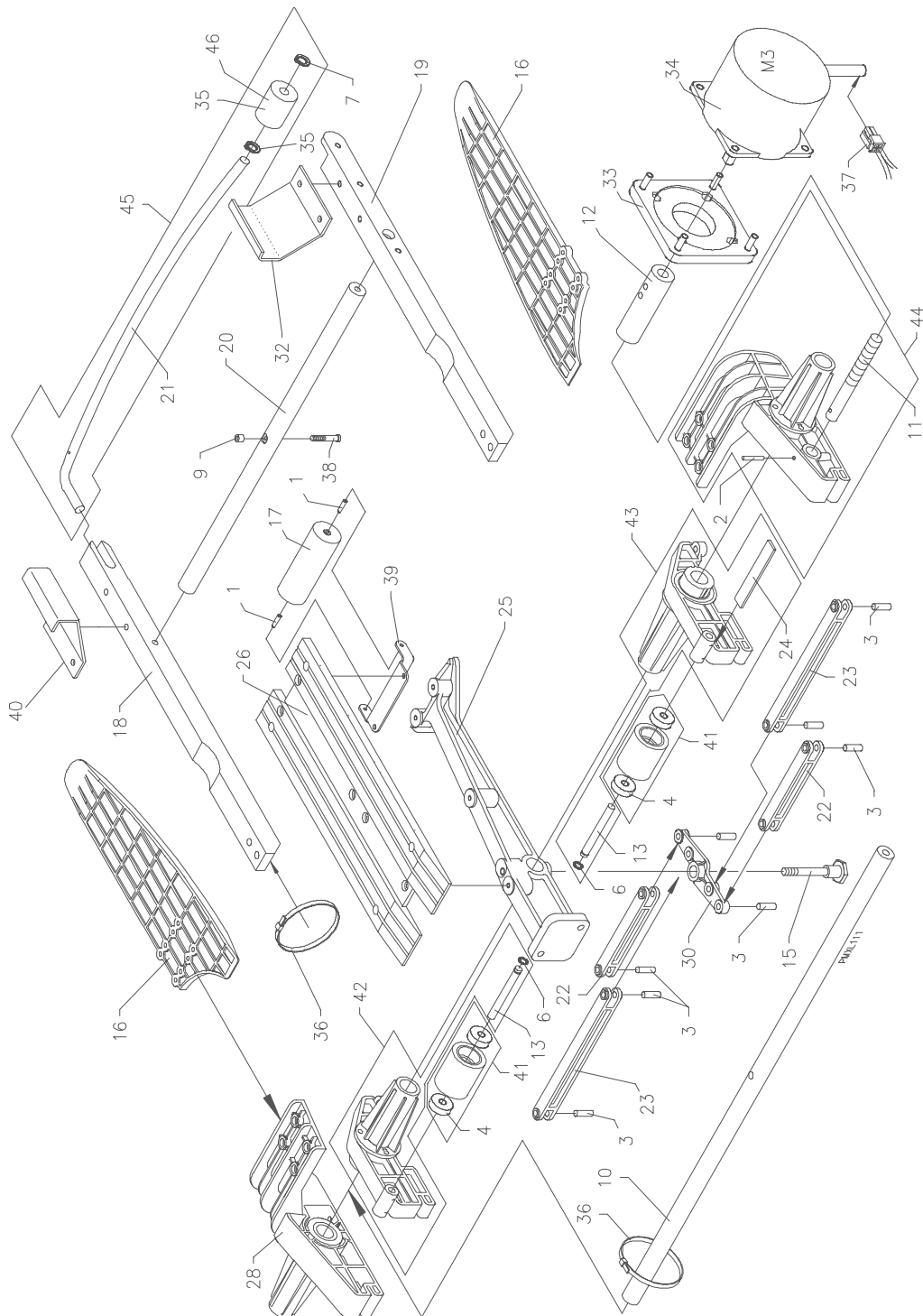
Film Bobbin / Dancer Bar



Film Bobbin / Dancer Bar

ITEM	PART #	DESCRIPTION
1	82704400A	BALL BRG, 10MM ID X 26MM OD X 8MM
2	82706300A	SPRING HOOK, DIN 1469C-4MM D X 25MM
3	82706500A	SPRING HOOK, DIN 1469C-5MM D X 25MM
4	82707000A	SNAP RING, EXTERNAL,DIN 471-10MM ID
5	82707500A	SNAP RING, EXT, SEEGER V-15 MM ID
6	82710000A	WASHER, SS, DIN 125A - M20
7	82708000A	GRIP RING, EXTERNAL, BN 832-10MM ID
7	82710400A	WASHER, POLYAMIDE, DIN 125A - M10
8	82711500A	SHIM WASHER, DIN 988;10IDX16ODX1MM
9	82735600A	PIVOT, FILM BOBBIN
10	82735700A	WASHER, 20 ID X 35 OD X 2 MM T
12	82736000A	FILM BRAKE RING
13	82763300A	BOBBIN LOCK RING
14	82736200A	BOBBIN LOCK PIN
15	82736300A	SPRING, L0=46.4 L1=20.4 K=0.32N/MM
16	82736400A	BOBBIN LOCK CYLINDER
18	82736600A	BEARING, BRONZE FLANGE
19	82832000A	DANCER BAR ROLLER AXLE
22	82737000A	SPRING, L0=38.25 L1=50.2 K=6.18N/MM
23	82763000A	COMPRESSION SPRING - BOBBIN LOCK
24	82739000A	FILM BRAKE HUB
25	82763100A	BOBBIN REAR REF. DISK - 3" MOLDED
26	82763200A	BOBBIN LOCKING DISK - 3" MOLDED
27	82739300A	ROLL GRIP CAM, DELRIN
28	82832200A	FILM BOBBIN TUBE
30	82763800A	BOBBIN RETAINER CAP
31	82707200A	SNAP RING, EXTERNAL,DIN 471-20MM ID
32	82711600A	SHIM WASHER, DIN 988;20IDX28ODX1MM
33	82876800A	BOBBIN SUPPORT ASSB - XL
34	82876900A	FILM BOBBIN ASSB - XL
35	82877000A	DANCER ROLLER ASSB - XL
36	82777100A	DANCER SUPPORT ASSB - XL
37	82862600A	DANCER BRAKE SHOE ASSB
38	82912600A	STATIC STRING ASSEMBLY - XL

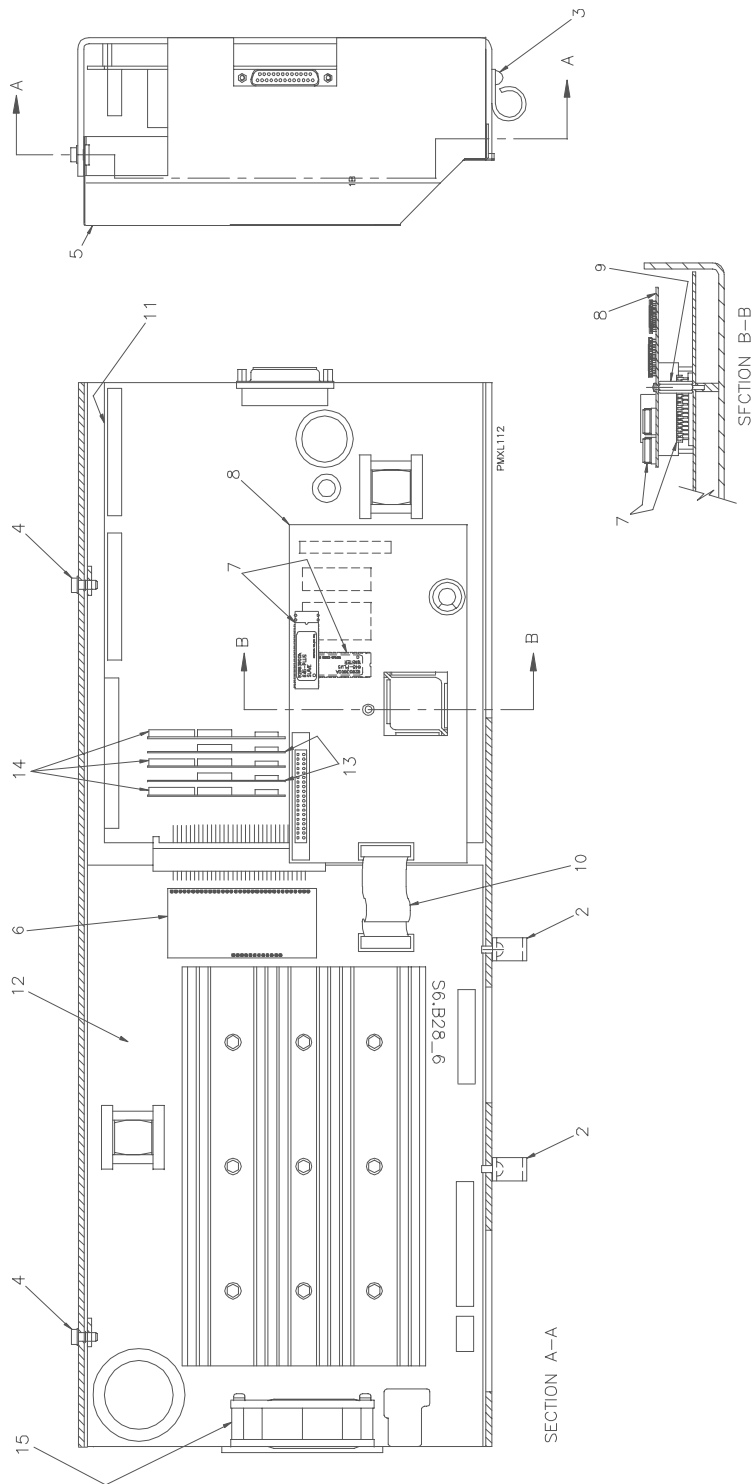
Film Folder



Film Folder

ITEM	PART #	DESCRIPTION
1	82702300A	DOWEL PIN, 3MM D X 12MM L
2	82702500A	DOWEL PIN, 3MM D X 20MM L
3	82702800A	DOWEL PIN, 5MM D X 16MM L
4	82704100A	BALL BRG, 6MM ID X 19MM OD X 6MM
6	82706800A	SNAP RING, EXTERNAL, DIN 471-6MM ID
7	82707900A	GRIP RING, EXTERNAL, BN 832-8MM ID
9	82709000A	SELF-LOCKING NUT, SS, DIN 985 - M4
10	82832300A	FOLDER GUIDE ROD
11	82832400A	FOLDER DRIVE SCREW
12	82737400A	FOLDER POSITION DRIVE NUT, BRONZE
13	82737500A	FILM PRESSURE WHEEL SPINDLE
15	82737700A	POSITION EQUALIZER PIVOT
16	82913100A	FOLDER PLATE - SIDE
17	82832900A	FILM ROLLER
18	82833600A	CURVED ROLLER SUPT
19	82738100A	CURVED ROLLER SUPT - FRONT
20	82832500A	BRACE ROD-FOLDER
21	82832600A	CURVED ROLLER BAR
22	82738500A	FILM ROLLER CONNECTING LINK
23	82738600A	FILM FOLDER CONNECTING LINK
24	82833300A	FOLDER FLAG
25	82833000A	FOLDER CENTRAL SUPT
26	B82916500A	FOLDER PLATE-CENTER
28	82739500A	FILM FOLDER SUPPORT, REAR
30	82739700A	CONNECTING LEVER - FILM FOLDER
32	82807400A	SEALING BELT SUPT-FRONT
33	82756300A	ISOLATOR - MOTOR MOUNT
34	82756600A	STEPPER MOTOR, 1NM, SINGLE SHAFT
35	82756800A	FILM ROLLER ASSB
36	81253900A	TY-WRAP
37	82848300A	POWER CABLE CN2
38	82825000A	SHCS, SS, DIN 912-M3X25MM
39	82832800A	ROLLER SUPT
40	82807500A	SEALING BELT SUPT-REAR
41	82858800A	FILM ROLLER ASSB
42	82877200A	FILM ROLLER SUPPORT ASSB - REAR
43	82877300A	FILM ROLLER SUPPORT ASSB - FRONT, XL
44	82877400A	FILM FOLDER SUPPORT ASSB - FRONT, XL
45	82877500A	FILM ROLLER ASSB - CURVED, XL
46	82912200A	FILM ROLLER - WITHOUT SLEEVE

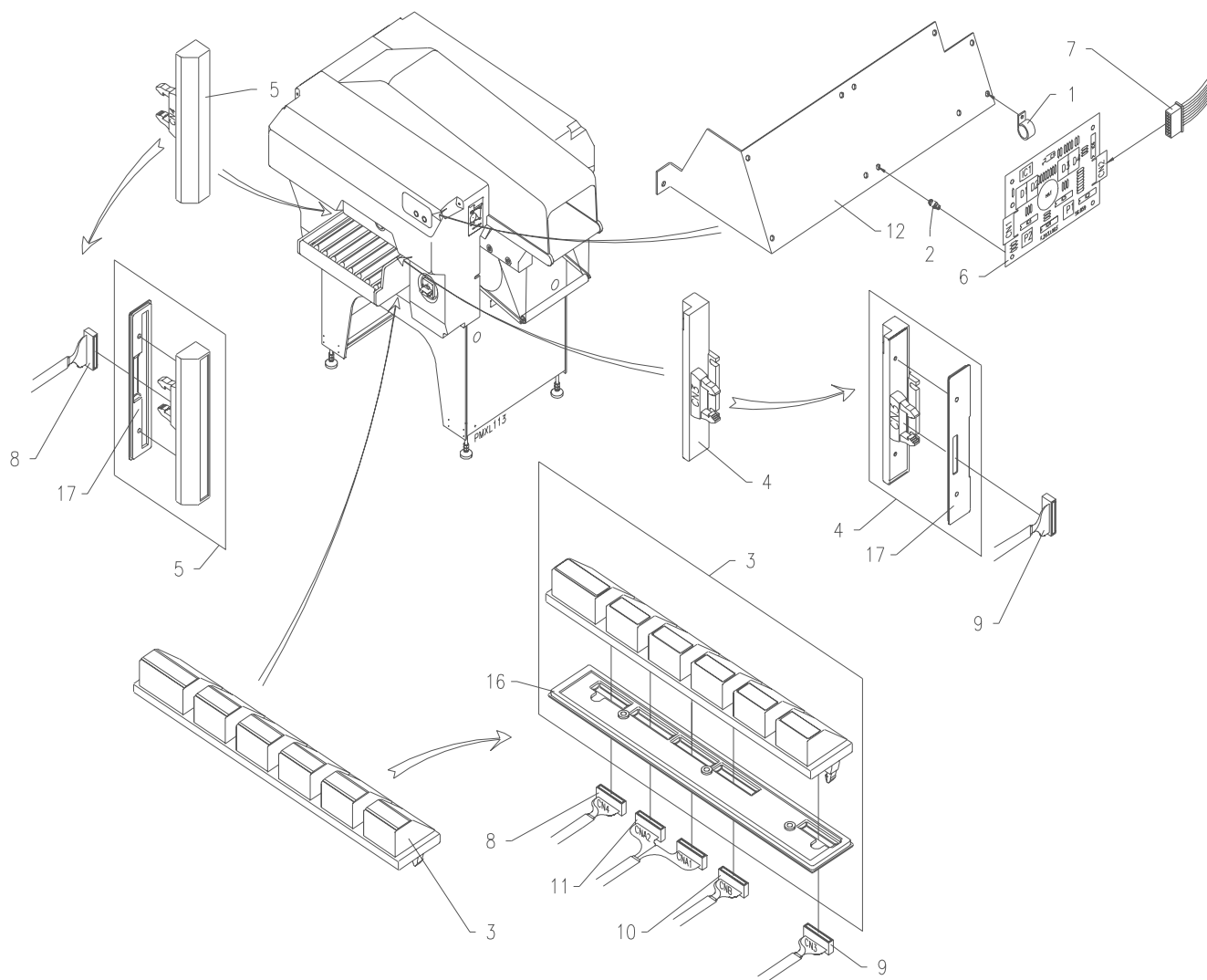
Electronics Rack



Electronics Rack

ITEM	PART #	DESCRIPTION
2	82700800A	CABLE CLAMP, 10MM ID
3	82721000A	PUSH RIVET, NYLON, RICHCO PPR-5080
4	A81160600A	SCREW 10-32X3/8 HEX WASHER HEAD CAP, SS
4	82712000A	HHCS, SS, DIN 933 - M5 X 12 MM
5	82741700A	CIRCUIT BOARD GUARD
6	14680700A	PLUS ID CARD
7	09250379000	PROGRAMMED EPROM KOP - 645 XL
8	14680300A	SLAVE CPU BOARD
9	82757300A	STANDOFF, M3 X 20MM L - MF
10	82757500A	SLAVE CPU LINK CABLE
11	82722300A	COMPLETE CPU BOARD WITHOUT PROGRAM
12	14677100A	STEPPER DRIVER BOARD
13	14720600A	HYBRID CIRCUIT - 8 INPUT
14	14720500A	HYBRID CIRCUIT - 8 OUTPUT
15	82740300A	CIRCUIT BOARD FAN ASSB, 24 VDC FAN

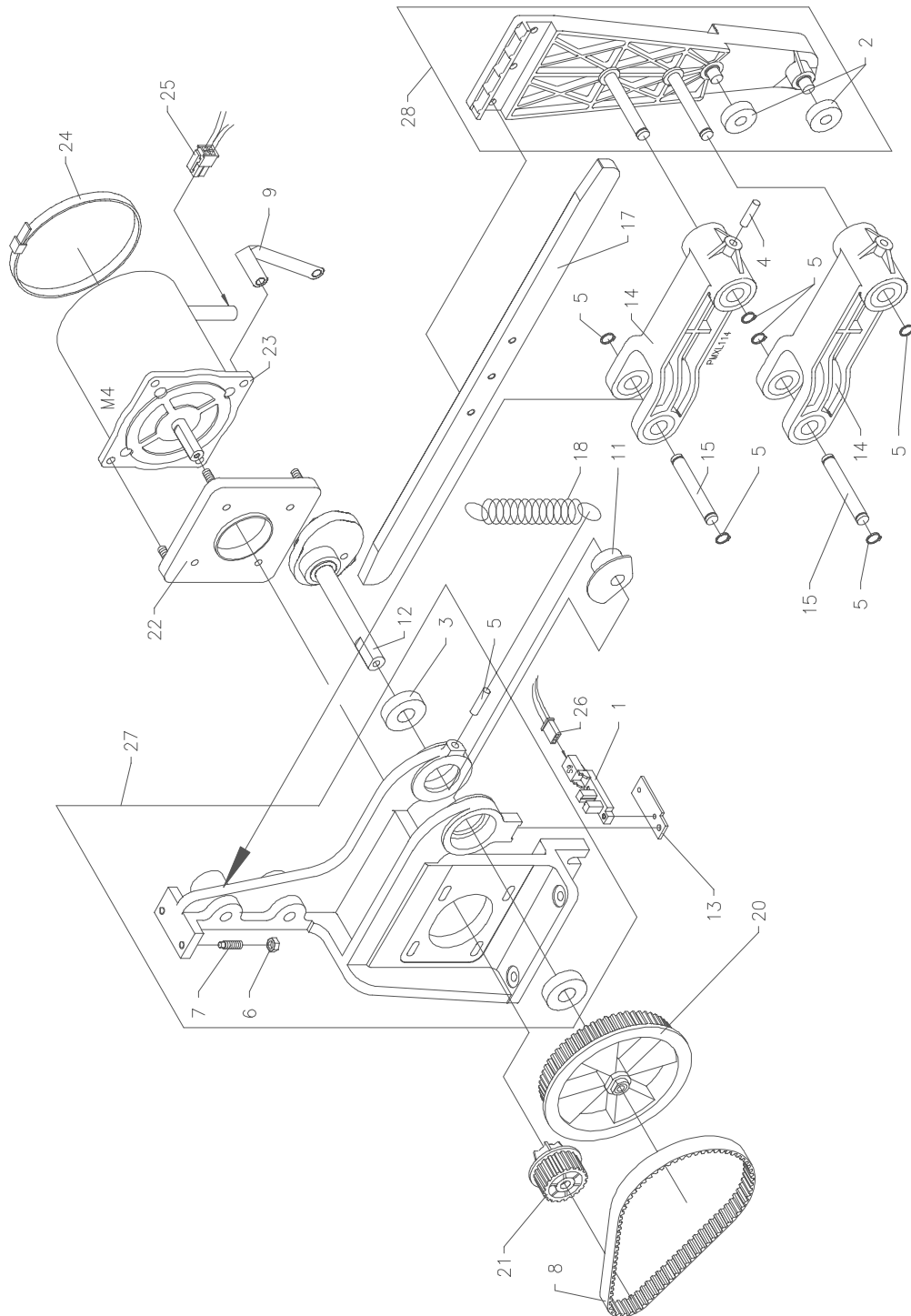
Photoeyes / Display



Photoeyes / Display

ITEM	PART #	DESCRIPTION
1	82700800A	CABLE CLAMP, 10MM ID
2	82885600A	STANDOFF - NYLON 0.152 X 0.188 L
3	14679100A	HORIZONTAL PHOTOEYE ASSB
4	14679500A	VERTICAL PHOTOEYE ASSB - RIGHT
5	14679900A	VERTICAL PHOTOEYE ASSB - LEFT
6	14677900A	DISPLAY BOARD ASSB
7	82849100A	SIGNAL CABLE
8	A82741300A	VERT LIGHT CURT RIBBON CABLE
9	A82741300A	VERT LIGHT CURT RIBBON CABLE
10	A82741400A	PHOTOEYE CONN CABLE
11	A82741500A	PHOTOEYE CONN CABLE-Y
12	82741800A	DISPLAY BOARD SUPT REV 5
16	14920600A	COVER - HORIZONTAL PHOTOEYE
17	14919900A	COVER - VERTICAL PHOTOEYE

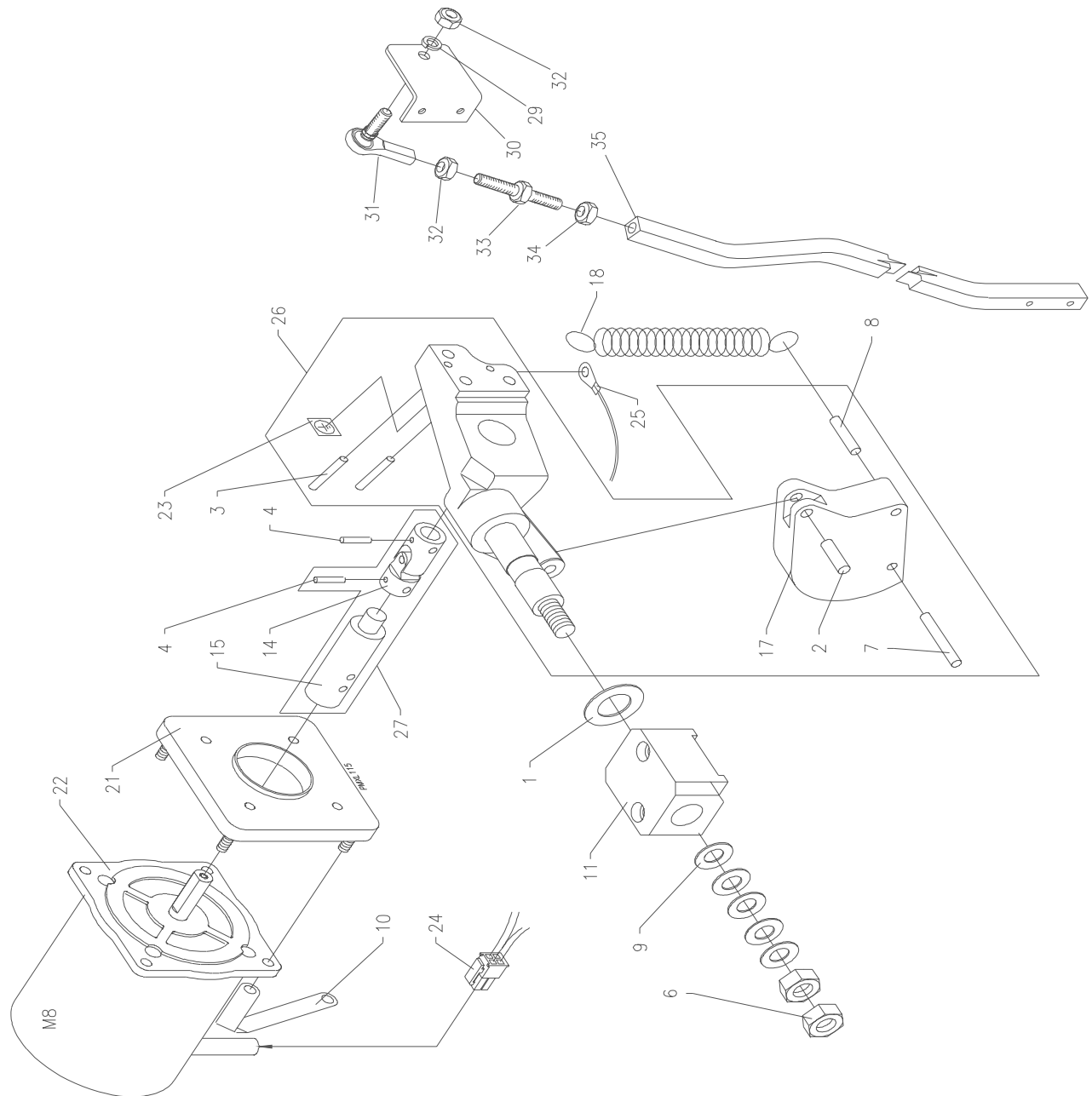
Clamp Opening Cam



Clamp Opening Cam

ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
2	82704300A	BALL BRG, 8MM ID X 22MM OD X 7MM
3	82704700A	BALL BRG, 12MM ID X 32MM OD X 10MM
4	82706400A	SPRING HOOK, DIN 1469C-5MM D X 20MM
5	82706900A	SNAP RING, EXTERNAL, DIN 471-8MM ID
6	82708500A	HX NUT, SS, DIN 934 - M5
7	82718600A	DOG TIP SETSCREW,SS,DIN 915;M5X16MM
8	82720700A	TIMING BELT, 5MM P X 12MM W X 78T
9	82742000A	GROUND STRAP
11	82743300A	ENCODER DISK
12	82877600A	CAM ASSB
13	82743500A	SENSOR SUPT
14	82743600A	CAM FOLLOWER ARM
15	82743700A	STATIONARY FOLLOWER PIN
17	82834900A	SIDE CLAMP ACTUATOR BAR
18	82744200A	SPRING, L0=98.4 L1=143.4 K=1.56N/MM
20	82744400A	CAM PULLEY, 5MMP X 15.5MM W X 60T
21	82752200A	NYLON DRIVE PULLEY;5MM P 15MM W 20T
22	82756300A	ISOLATOR - MOTOR MOUNT
23	82756400A	STEPPER MOTOR, 2NM, SINGLE SHAFT
24	A80655400A	CABLE TIE
25	82848200A	POWER CABLE CN3
26	82849100A	SIGNAL CABLE
27	82877700A	CAM FRAME ASSB
28	82860800A	CAM FOLLOWER PLATE

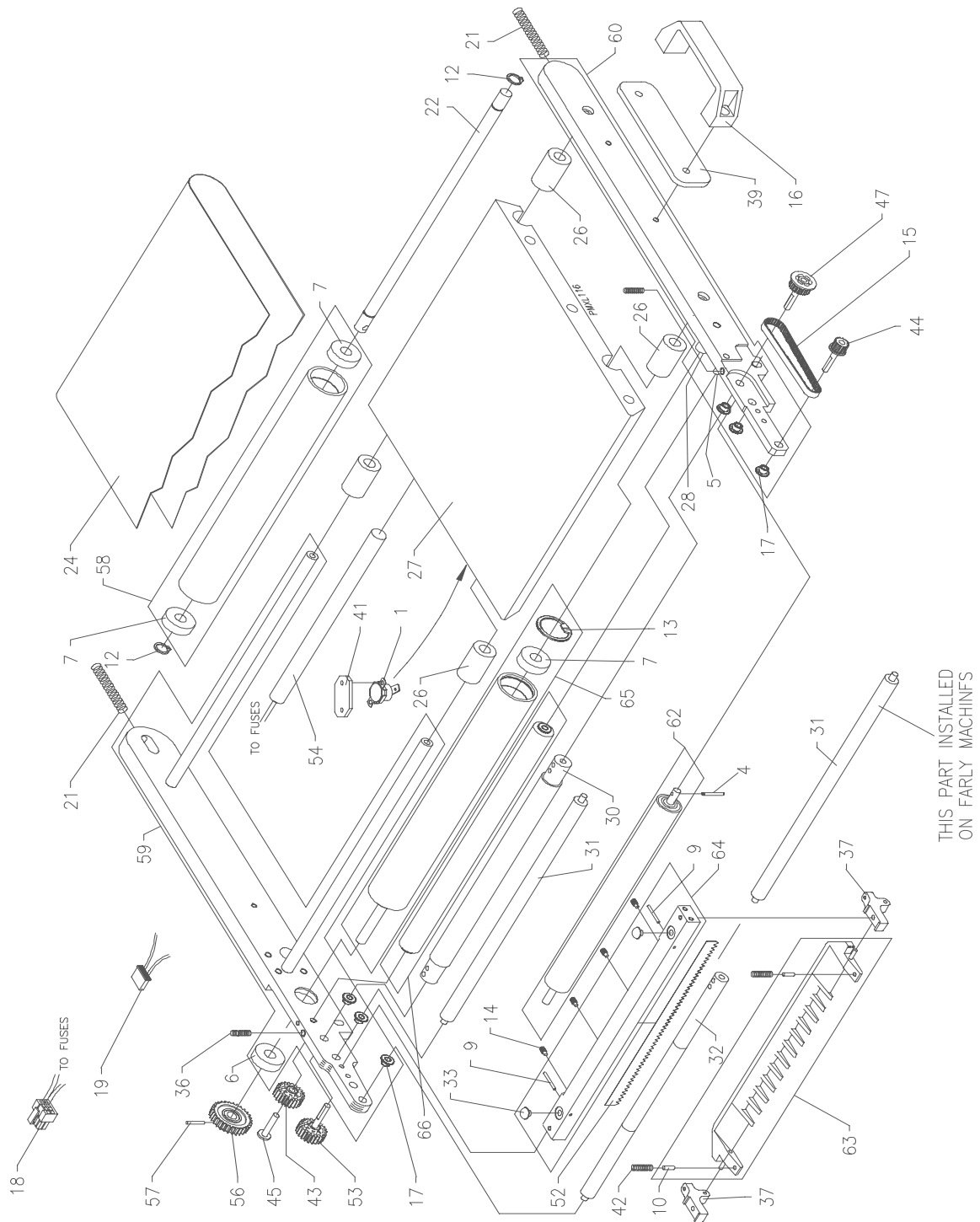
Sealing Belt Hinge



Sealing Belt Hinge

ITEM	PART #	DESCRIPTION
1	82702100A	THRUST WASHER, 17MM ID X 30MM OD X1
2	82703400A	DOWEL PIN, 6MM D X 20MM L
3	82824300A	TAPER PIN, DIN 1471-4MM D X 35MM L
4	82705400A	SPIRAL PIN, SS, DIN 8750-3MM D X 16
6	82708200A	HX JAM NUT, SS, DIN 439 B - M10
7	82705600A	SPIRAL PIN, SS, DIN 8750-5MM D X 36
8	82706500A	SPRING HOOK, DIN 1469C-5MM D X 25MM
9	82722000A	BELLEVILLE SPRING,DIN 2093B 10.2X20
10	82742000A	GROUND STRAP
11	82744500A	STATIONARY HINGE SUPT
14	82745800A	DRIVESHAFT UNIVERSAL JOINT
15	82835600A	DRIVE SHAFT-SEALING BELT
17	A82836300A	LATCH BLOCK-SEALING PLATE
18	82836400A	SPRING, L0=115.1 L1=130.0 K=4.9N/MM
21	82756300A	ISOLATOR - MOTOR MOUNT
22	82756400A	STEPPER MOTOR, 2NM, SINGLE SHAFT
23	82700100A	GROUND DECAL
24	82848200A	POWER CABLE CN3
25	82742800A	GROUND WIRE ASSB
26	82877800A	HINGE ASSB - XL SEALING BELT
27	82882200A	U-JOINT ASSB
29	R0283100A	LOCK WASHER, 5/16, ZINC PLATED
30	82901100A	PIVOT - AUXILIARY SEALING BELT
31	82673700A	ROD END WITH STUD, 5/16-24 UNF
32	R01174050	HEX NUT, 5/16-24 UNF, ZINC PLATED
33	81182100A	BOLT - UNIBALL CONNECTION
34	R0291200A	HEX NUT, 5/16-24 UNF-LH, ZINC PLATED
35	82901000A	SUPPORT, AUXILIARY SEALING BELT

Sealing Belt



Sealing Belt

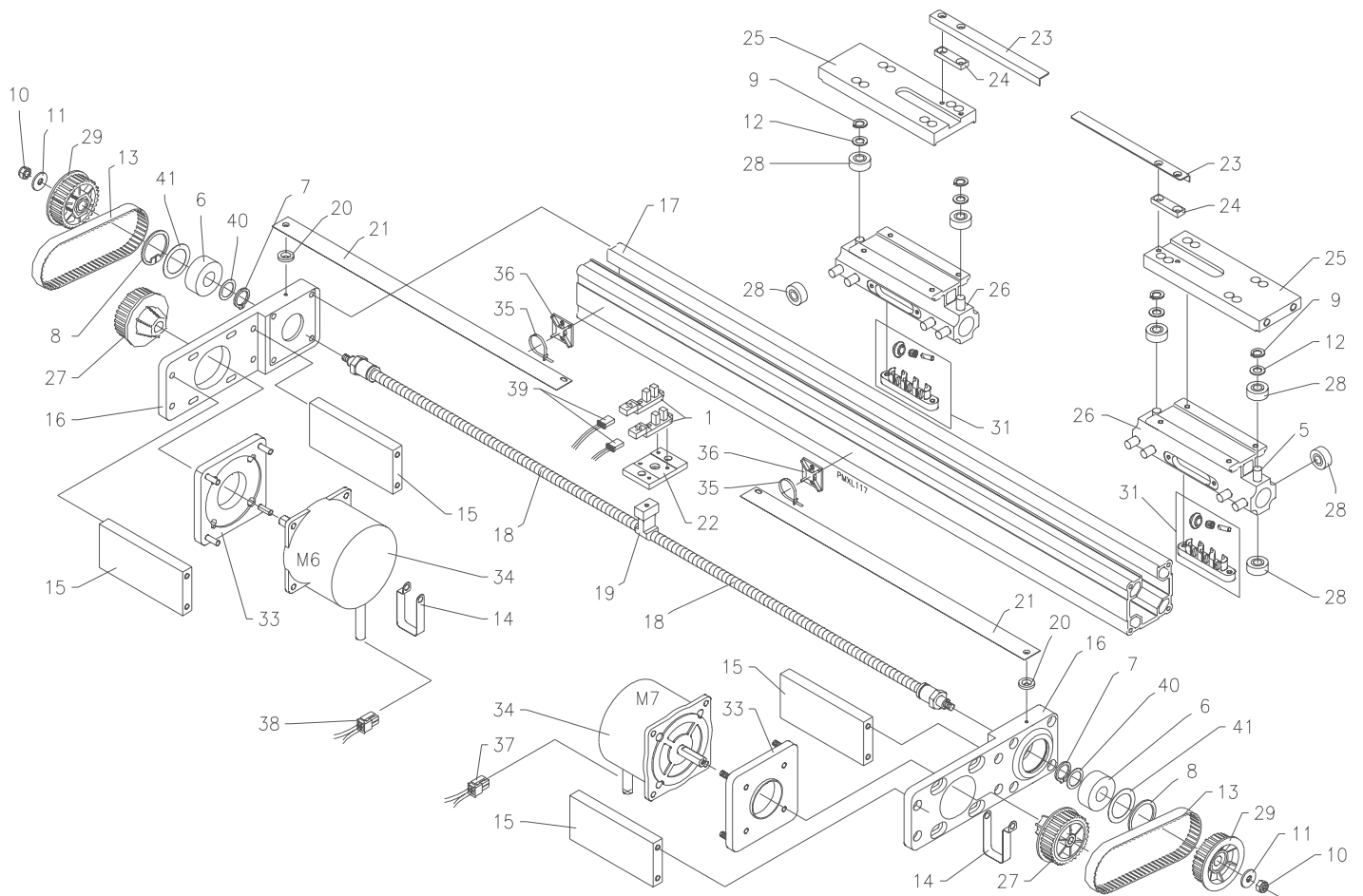
ITEM	PART #	DESCRIPTION
1	82700400A	THERMOSTAT 160C 10A/220V
4	82702200A	DOWEL PIN, 2MM D X 20MM L
5	82702900A	DOWEL PIN, 5MM D X 20MM L
6	82703800A	BALL BRG, 10MM ID HIGH TEMP GREASE
7	82703900A	BALL BRG, 10MM ID HIGH TEMP GREASE
9	82705100A	ROLL PIN, SPR. ST. DIN 1481-2MM X20
10	82705300A	SPIRAL PIN, SS, DIN 8750-3MM D X 10
12	82707000A	SNAP RING, EXTERNAL, DIN 471-10MM ID
13	82707300A	SNAP RING, INTERNAL DIN 472-30MM OD
14	82718500A	DOG TIP SETSCREW, SS, DIN 915; M4X8MM
15	82720600A	TIMING BELT, 2.5MM P X 6MM W X 80T
16	82720800A	U-HANDLE
17	82721200A	IGLIDE FLNG BRG, 5MM IDX7MM ODX5MM
18	82740900A	SEALING PLATE POWER CABLE ASSB
19	A82741100A	TEMPERATURE SENSOR CABLE
21	82744900A	SPRING L0=54.5 L1=22.2 K=1.56N/MM
22	82835100A	IDLER SHAFT
24	82825800A	SEALING BELT
26	82745400A	HEATER INSULATOR
27	82835400A	SEALING PLATE
28	82745600A	DRIVE ROLLER SPINDLE
30	82835700A	PKG DRIVE ROLLER
31	82835800A	PKG SUPT ROLLER
32	82835900A	FILM DRIVE ROLLER
33	82746300A	UNDERFOLD PLATE BUMPER
36	82746600A	SPRING, L0=19 L1=8.89 K=0.82N/MM
37	82746700A	PIVOT - DISTRIBUTOR CLAMP
39	82746900A	HANDLE INSULATOR, ABS
41	82747000A	INSULATOR, TEMP SENSOR, TEFLON
42	82747500A	SPRING, L0=25.25 L1=12.1 K=0.64N/MM
43	82747700A	IDLER GEAR, 22 TEETH
44	82747800A	FILM DRIVE PULLEY, SMALL, 16 TEETH
45	82748000A	SPINDLE, IDLER GEAR
47	82748200A	FILM DRIVE PULLEY, LARGE, 24 TEETH
52	82836800A	KNIFE
53	82765600A	FILM DRIVE GEAR
54	A82834500A	HEATER CABLE SET-SEALING BELT
56	82747600A	DRIVE GEAR, LARGE, 40 TEETH
57	82705500A	SPIRAL PIN, SS, DIN 8750-3MM D X 20
58	82877900A	IDLER ROLLER ASSB - XL SEALING BELT
59	82878000A	FRAME ASSB - XL SEALING BELT, REAR
60	82904000A	FRAME ASSB - XL SEALING BELT, FRONT
62	82878200A	FILM PRESSURE ROLLER ASSB - XL
63	82878300A	DISTRIBUTOR CLAMP PLATE ASSB - XL
64	82878400A	KNIFE MOUNT ASSB - XL

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65	82878500A	ROLLER ASSB - XL SEALING BELT
66	82882400A	ASSB - PKG SUPT ROLLER

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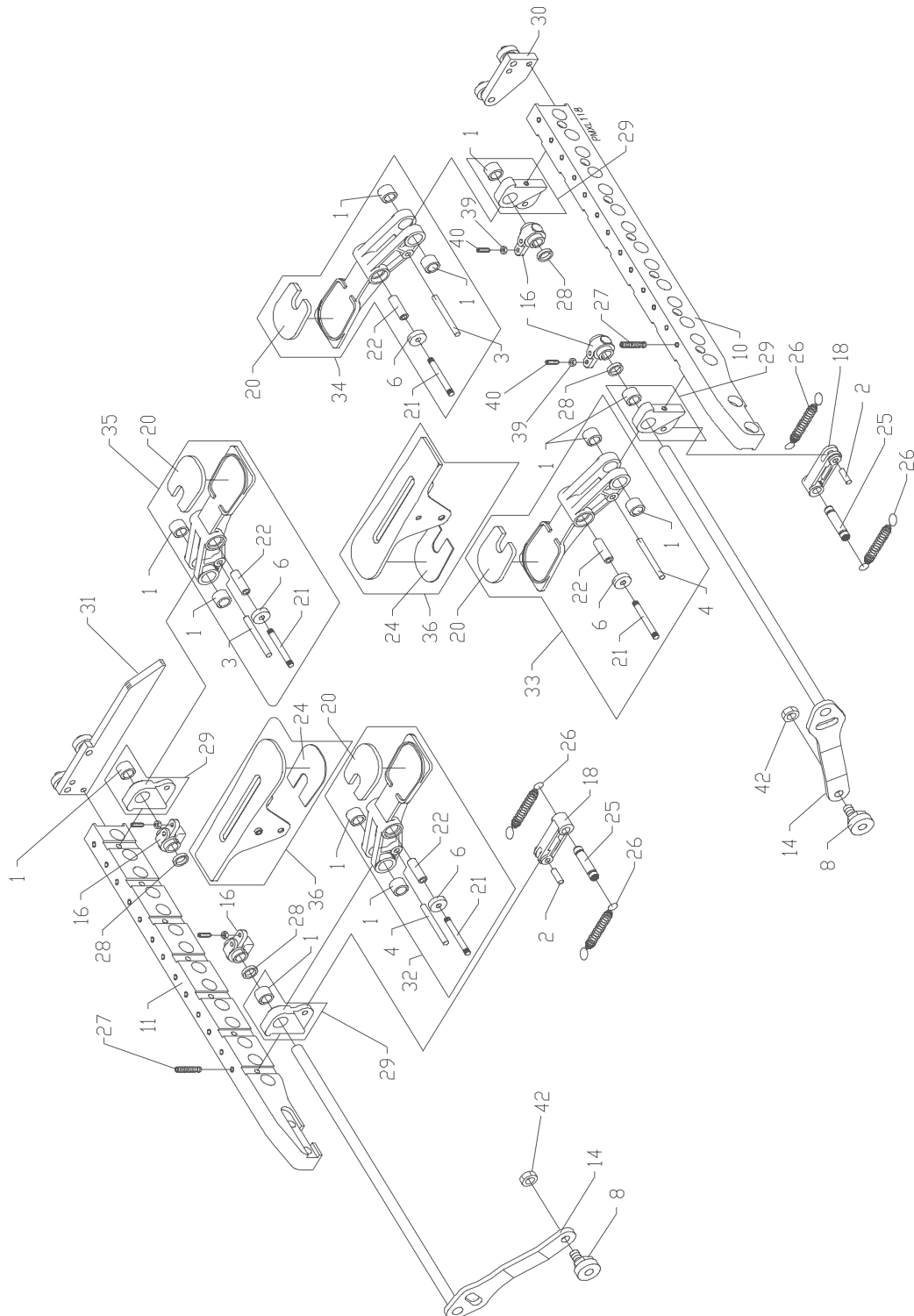
Side Clamp Actuator



Side Clamp Actuator

ITEM	PART #	DESCRIPTION
1	82700500A	PHOTO INTERRUPT SENSOR
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	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	82836900A	MOTOR SUPT STANDOFF
16	82748800A	MOTOR SUPT STAND
17	82837000A	ACTUATOR CASING - SIDE CLAMP
18	82879600A	SIDE CLAMP LEADSCREW ASSB - XL
19	82749200A	LEADSCREW SUPT
20	82749300A	SHIELD SPACER
21	82837200A	ACTUATOR SHIELD
22	82749500A	SUPT PLATE, SENSOR/LEADSCREW
23	82837300A	SIDE CLAMP FLAG
24	82749700A	FLAG SPACER - SIDE CLAMP
25	82749800A	MOUNTING PLATE - SIDE CLAMP
26	82861800A	ACTUATOR CARRIAGE ASSB - SIDE CLAMP
27	82757900A	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	82756400A	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
40	82906900A	SHIM RING 15 ID X 21 OD X 0.2
41	82906800A	SHIM RING 25 ID X 35 OD X 0.1

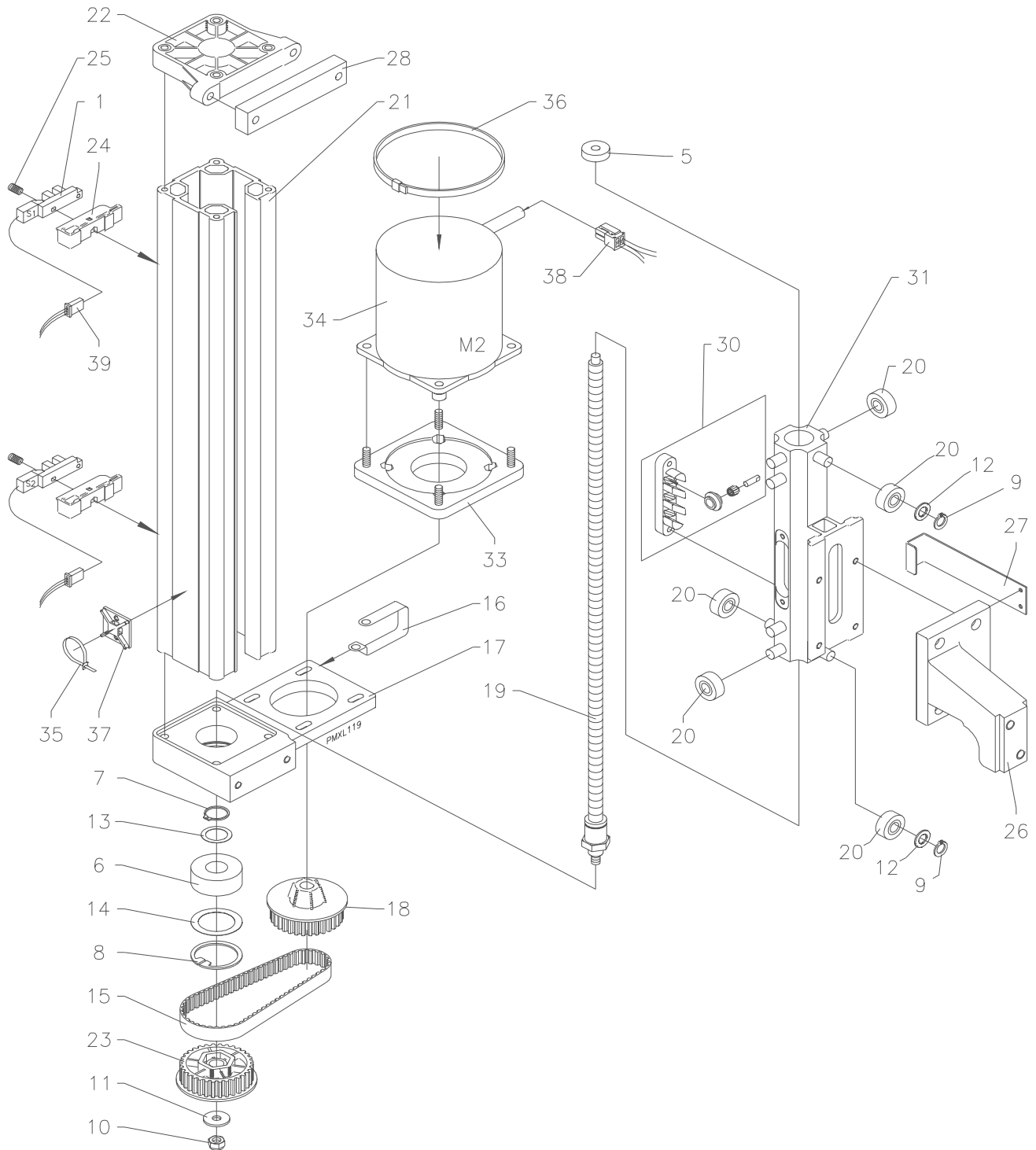
Side Clamps



Side Clamps

ITEM	PART #	DESCRIPTION
1	82701800A	ROLLER BRG, 10MM ID X 14MM OD X 10
2	82702800A	DOWEL PIN, 5MM D X 16MM L
3	82703200A	DOWEL PIN, 5MM D X 40MM L
4	82703300A	DOWEL PIN, 5MM D X 50MM L
6	82704000A	BALL BRG, 5MM ID X 16MM OD X 5MM
8	82862000A	SIDE CLAMP ECCENTRIC ASSB
10	82837500A	SIDE CLAMP FRAME-FRONT
11	82837700A	SIDE CLAMP FRAME-REAR
14	82837600A	SIDE CLAMP LEVER
16	82750700A	ACTUATOR FINGER - SIDE CLAMP JAW
18	82750900A	LOWER LINK - SIDE CLAMP JAW
20	82751100A	SIDE CLAMP PAD - LOWER JAW
21	82751200A	UPPER PIVOT PIN - SIDE CLAMP JAW
22	82751300A	BEARING SPACER - SIDE CLAMP JAW
24	82751500A	SIDE CLAMP PAD - UPPER JAW
25	82751600A	LOWER PIVOT PIN - SIDE CLAMP
26	82751700A	SPRING, L0=69 L1=81.5 K=7.20N/MM
27	82751800A	SPRING HOOK
28	82838000A	SPACER 10.5 X 14 X 3 MM
29	82879700A	GRIPPER MOUNT ASSB
30	82901600A	RIGHT SIDE CLAMP BEARING SUPPORT KOP
31	82901300A	LEFT SIDE CLAMP BEARING SUPPORT KOP
32	82879800A	SIDE CLAMP JAW ASSB - LWR,ACT. END,REAR
33	82879900A	SIDE CLAMP JAW ASSB - LWR,ACT. END,FRONT
34	82880200A	SIDE CLAMP JAW ASSB - LWR,CENTRAL,FRONT
35	82880300A	SIDE CLAMP JAW ASSB - LWR,CENTRAL,REAR
36	82880400A	SIDE CLAMP JAW ASSB - UPPER

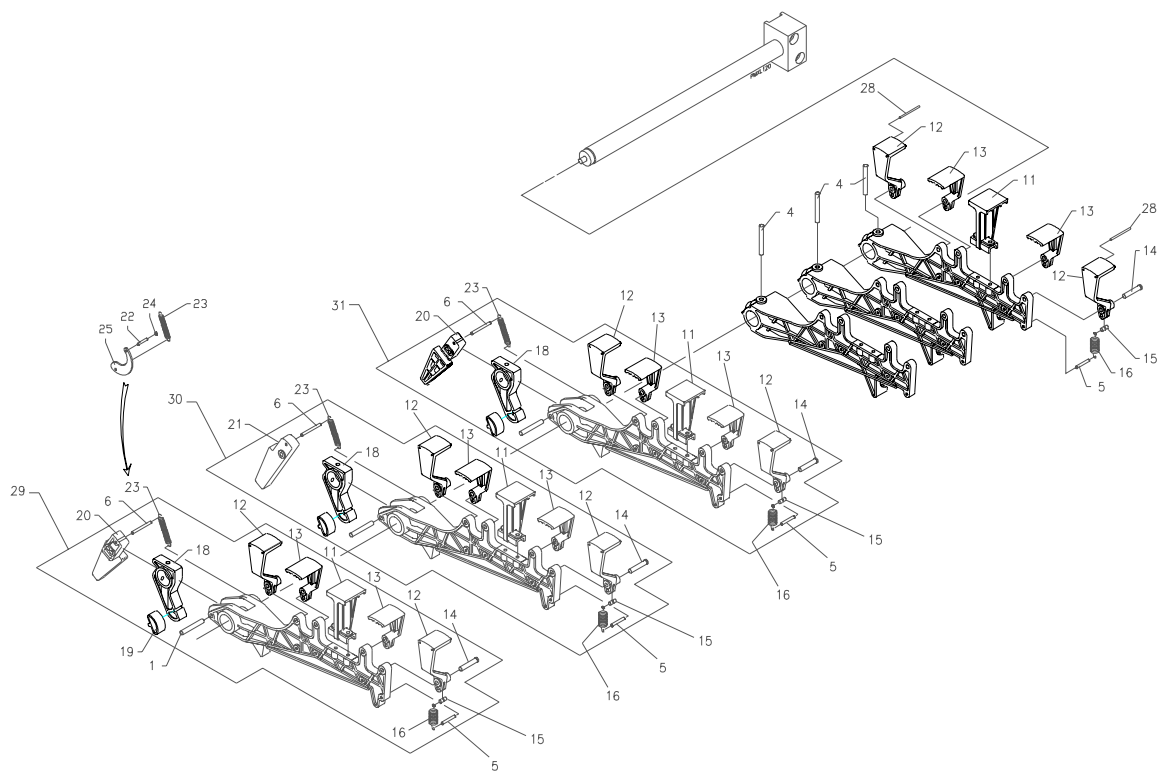
Lifter Actuator



Lifter Actuator

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 IDX 14 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	82752100A	MOTOR MOUNT-LIFTER ACTUATOR
18	82757900A	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	82756400A	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

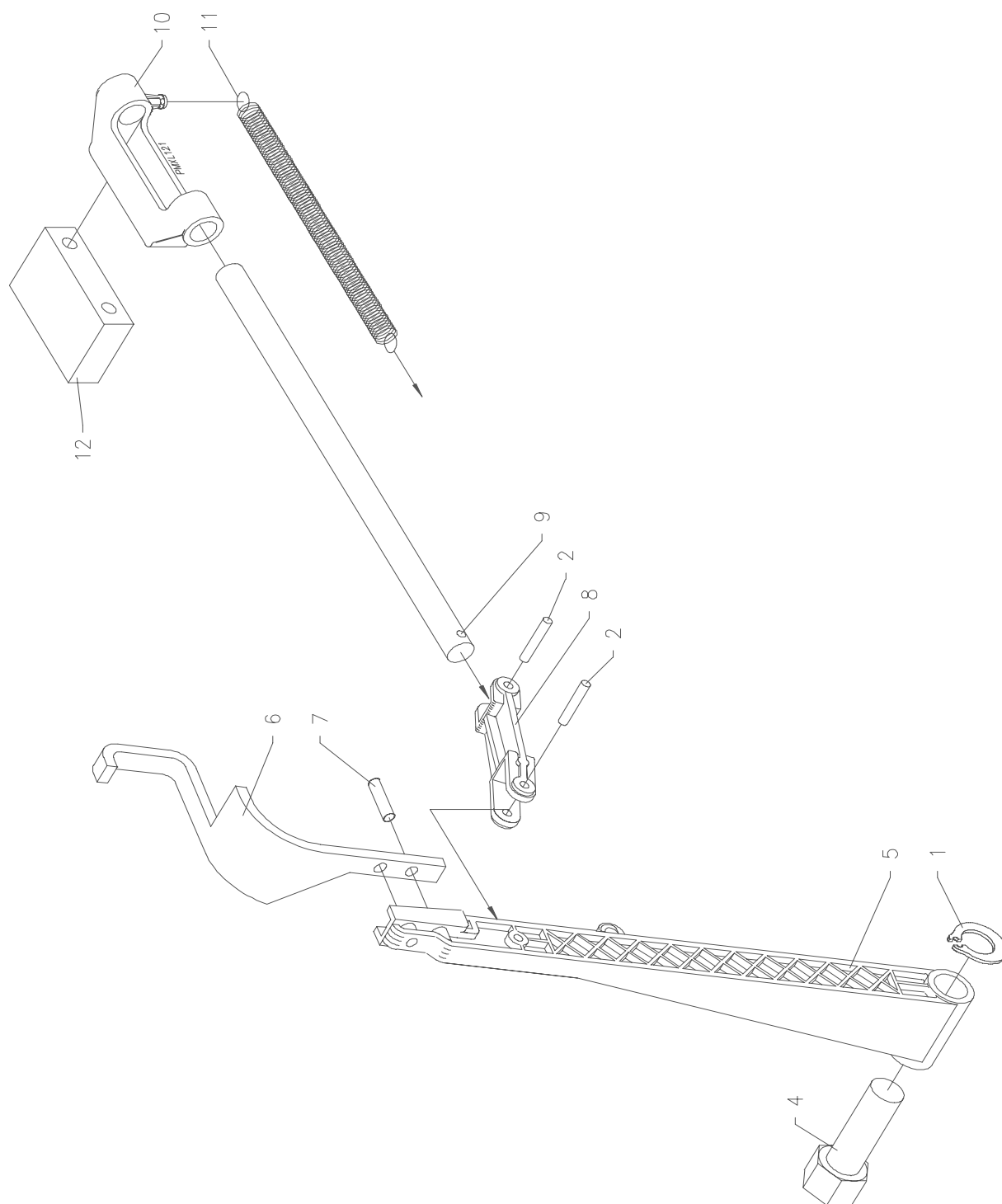
Lifter



Lifter

ITEM	PART #	DESCRIPTION
1	82703100A	DOWEL PIN, 5MM D X 36MM L
4	82863500A	SPIRAL PIN, STL, DIN 8750-5MM D X 40
5	82705800A	SPRING HOOK, DIN 1469C-3MM D X 20MM
6	82705900A	SPRING HOOK, DIN 1469C-3MM D X 30MM
11	A82753600A	PKG SUPT, CENTER
12	82753700A	PKG SUPT, LONG
13	82753800A	PKG SUPT, SHORT
14	82753900A	PKG SUPT PIVOT PIN
15	82754000A	PKG SUPT SPRING HOOK
16	82754100A	SPRING, L0=30.5 L1=61.4 K=0.93N/MM
18	B82754300A	STOP - MOBILE LIFTER ARM
19	82754400A	BUMPER - MOBILE LIFTER ARM
20	82754500A	LATCH-MOBILE LIFTER ARM, OUTER
21	82754600A	LATCH-MOBILE LIFTER ARM, CENTER
22	82705400A	SPIRAL PIN, SS, DIN 8750-3MM D X 16
23	82754700A	SPRING, L0=36.4 L1=52.8 K=0.39N/MM
24	82707600A	GRIP RING, EXTERNAL, BN 832-3MM ID
25	82762600A	SPRING HOOK
28	82702200A	DOWEL PIN, 2MM D X 20MM L
29	82907900A	MOBILE LIFTER ARM ASSEMBLY - LEFT
30	82908000A	MOBILE LIFTER ARM ASSEMBLY - CENTER
31	82908100A	MOBILE LIFTER ARM ASSEMBLY - RIGHT
99	A82842700A	KOP-LIFTER ASSEMBLY

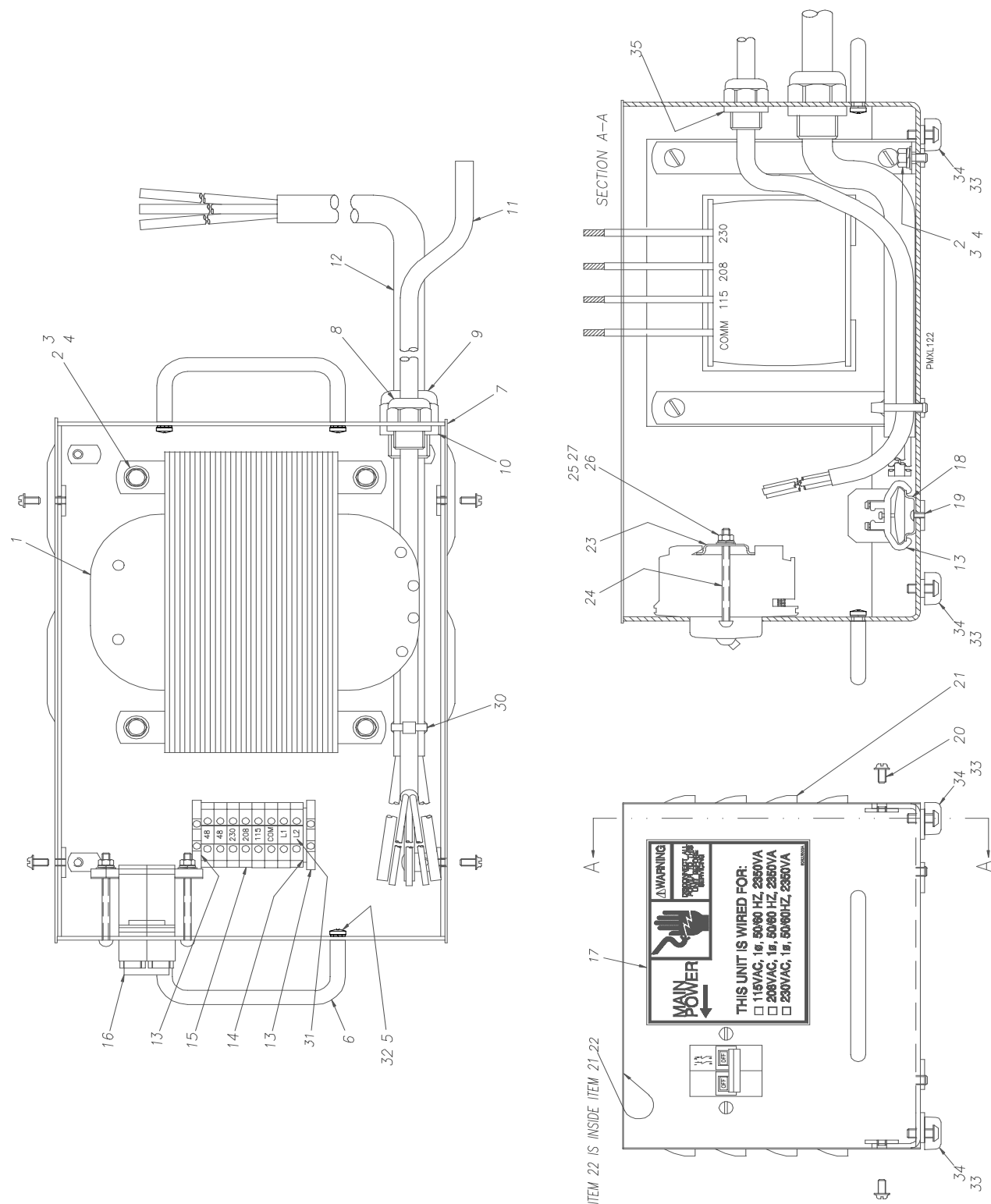
Lifter Release Assembly



Lifter Release Assembly

ITEM	PART #	DESCRIPTION
1	82824700A	GRIP RING, EXTERNAL, BN 832-15MM ID
2	82702700A	DOWEL PIN, 4MM D X 24MM L
4	82838700A	LIFTER RELEASE PIVOT
5	82755000A	LEVER - LIFTER RELEASE
6	82838800A	RELEASE LEVER EXTENSION
7	82755200A	BUMPER - LIFTER RELEASE
8	82755300A	CONNECTION LINK - LIFTER RELEASE
9	82838900A	RELEASE ROD
10	82755500A	SLIDE BEARING - LIFTER RELEASE
11	82755600A	SPRING, L0=116.5 L1=261 K=0.125N/MM
12	82839000A	STANDOFF - SLIDE BEARING

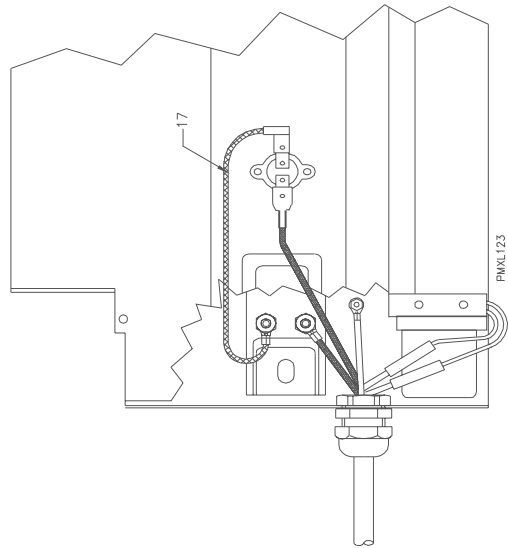
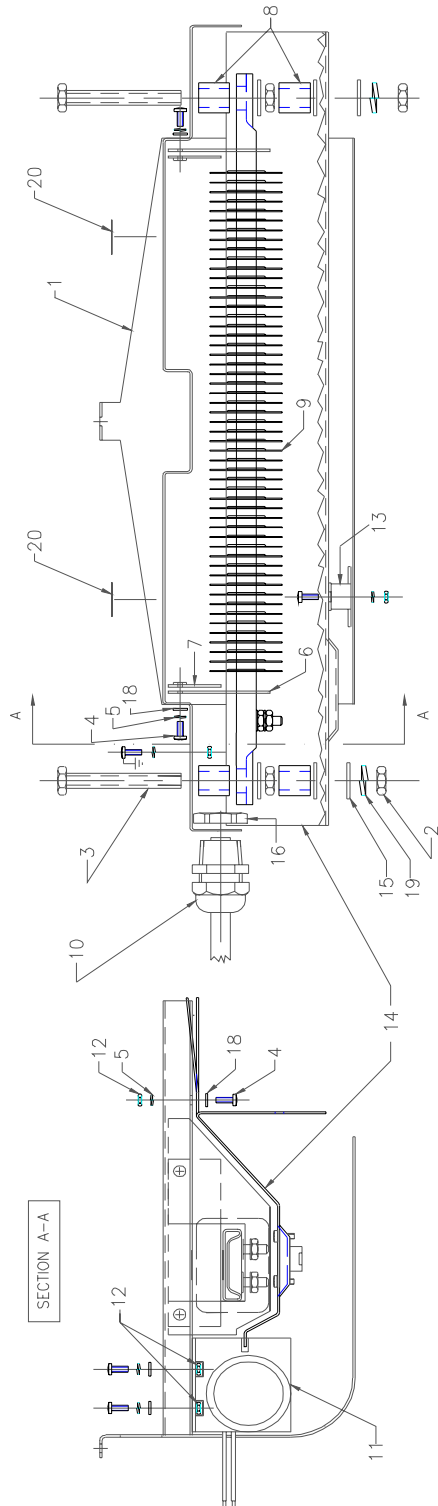
Transformer



Transformer

ITEM	PART #	DESCRIPTION
1	82780500A	TRANSFORMER
2	R0311000A	SCREW 1/4-20 X 1/2 HEX HEAD CAP ST. ST.
3	R0233400A	WASHER 1/4 LOCK
4	R0366300A	WASHER 1/4 FLAT ST. ST.
5	82716000A	CRHCS, SS, DIN 7985A - M5 X 12 MM
6	82797400A	HANDLE
7	82779600A	BOX - TRANSFORMER
8	A82474600A	CORD GRIP .170 TO .464
9	82781800A	CORD GRIP .450 TO .709
10	82781700A	NUT - CORD GRIP
11	82798800A	CORD 12/3 TYPE SJ 10 FT. LONG
12	82781600A	#8/3 CORD TYPE SOW 7 FT. LONG
13	A82476400A	GROUND BARRIER
14	82857400A	END BARRIER
15	82797300A	TERMINAL
16	82795800A	CIRCUIT BREAKER - 16 AMP (208/230 VAC UN
16	82797900A	CIRCUIT BREAKER - 25 AMP (115 VAC UNITS)
17	82823500A	LABEL - 645 TRANSFORMER
18	82797500A	DIN RAIL
19	R0274100A	SCREW 8-32 X 1/2 RND HEAD
20	A81160600A	SCREW 10-32 X 3/8 HEX WASHER HEAD
21	82779700A	COVER - TRANSFORMER
22	82823600A	LABEL - TRANSFORMER WIRING
23	82799100A	DIN RAIL - CIRCUIT BREAKER
24	R0274900A	SCREW 10-32 X 2-1/2" ROUND HEAD
25	R0233300A	WASHER - #10 LOCK
26	R0365700A	WASHER - #10 FLAT
27	R0342000A	NUT 10-32 HEX
28	82800400A	WIRE #12 GA. MTW BROWN 10" LG.
29	82800500A	WIRE #12 GA. MTW BLUE 10" LG.
30	81253900A	TY-WRAP
31	82823200A	MARKERS - 645 TRANSFORMER TERMINAL
32	82710900A	LOCK WASHER, SS, DIN 127B - M5
33	81861300A	FOOT
34	R0398400A	SCREW - 1/4-20 X 5/8 BUTTON HEAD ST. ST.
35	A80077800A	NUT - CORD GRIP

Blower Heater

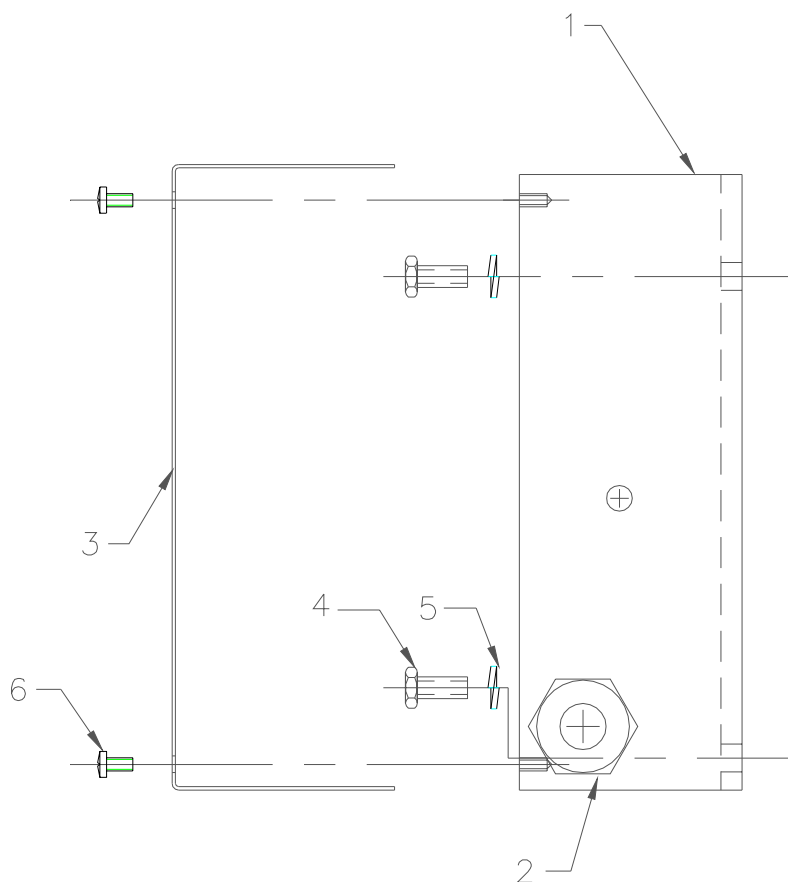


Blower Heater

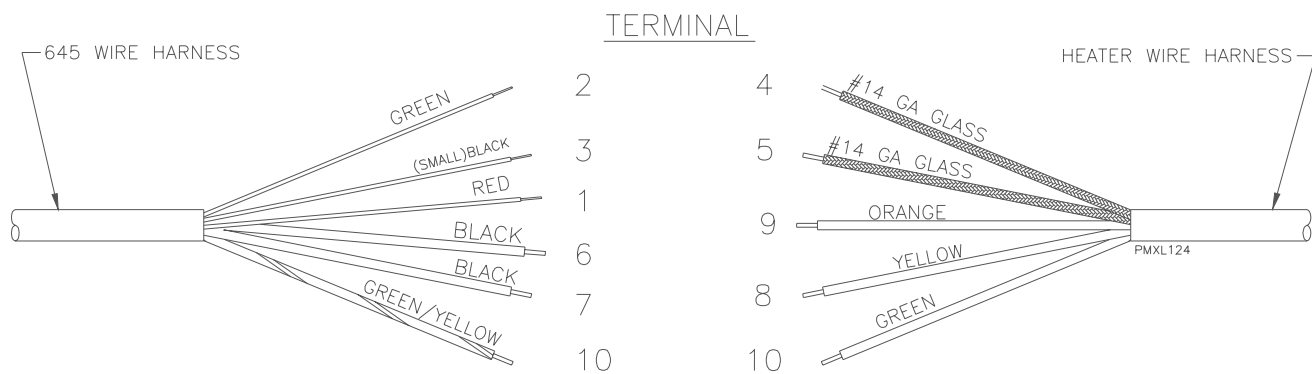
ITEM	PART #	DESCRIPTION
1	82814900A	COVER - HEATER
2	82708700A	HX NUT, SS, DIN 934 - M8
3	82820000A	HEX HEAD BOLT M8X55
4	82674400A	SCREW - PHIL PAN M3X8
5	82710700A	LOCK WASHER, SS, DIN 127B - M3
6	82802700A	SIDE PLATE - HEATER
7	82815600A	SIDE MOUNTING PLATE - HEATER
8	82802800A	SPACER - HEATER
9	82786800A	HEATING ELEMENT - 645
10	82815900A	CABLE ASSB - HEATER
11	82820700A	BLOWER
12	28708300A	HEX NUT - M3
13	82802500A	THERMOSTAT
14	82819000A	COVER PLATE - HEATER
15	R0234300A	WASHER .312 ID X .750 OD
16	A80077800A	LOCKNUT - CONDUIT
17	82819300A	WIRE - THERMOSTAT
18	82709400A	WASHER, SS, DIN 125A - M3
19	82711100A	LOCK WASHER, SS, DIN 127B - M8
20	82892700A	DECAL - CAUTION HOT - SMALL

Individual parts are available for the new style heater only (shown). If parts replacement is required on the old style, order a new style heater: 82816900A.

Blower Control Board



HEATER-BLOWER PCB TERMINATIONS

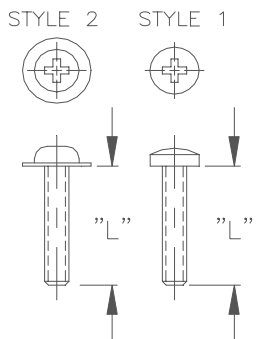
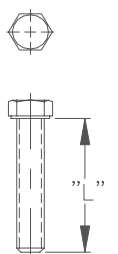
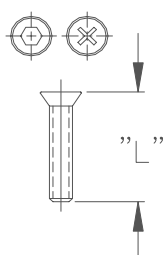
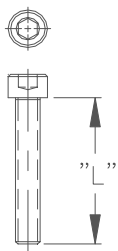


Blower Control Board

ITEM	PART #	DESCRIPTION
1	14677500A	HEATER/BLOWER PCB
2	A82474600A	FITTING-LIQUID TIGHT CABLE
3	82807100A	COVER-HEATER BOARD
4	82712000A	HHCS, SS, DIN 933 - M5 X 12 MM
5	82710900A	LOCK WASHER, SS, DIN 127B - M5
6	82714800A	CRHCS, SS, DIN 7985A - M3 X 6 MM

When replacing the old style control board (with external fuse holders), order assembly: 82820800A.

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	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	-----	-----	-----
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

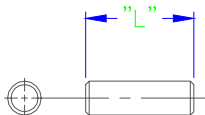
"L"	M3	M4	M5	M6
6	82714800A	82715100A	-----	-----
8	-----	82715200A	-----	-----
10	82714900A	82715300A 82714600A*	82715900A	-----
12	-----	82715400A	82716000A	82822900A
16	82715000A	82715500A	82716100A 82714700A*	-----
20	-----	82715600A	82716200A	-----
25	-----	82715700A	82716300A	-----
30	-----	82715800A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

*STYLE 2

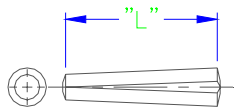
FLAT WASHERS

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

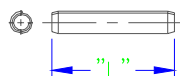
STYLE	M8	M10	M12	M20
DIN 125A, SS	82709800A	-----	82709900A	82710000A
DIN 125A POLYIMIDE	-----	82710400A	-----	-----

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)

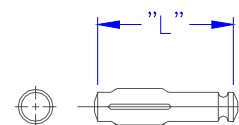
"L"	4MM DIA.	5MM DIA.
30MM	82824500A	82705000A
35MM	82824300A	-----
40MM	82704900A	-----

SPIRAL PIN

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

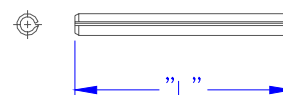
SPRING HOOK

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



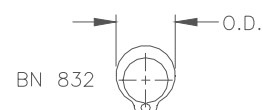
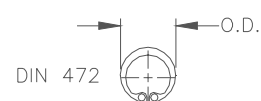
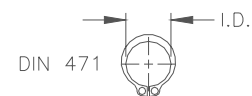
ROLL PIN (SPRING PIN)

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



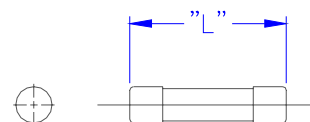
RETAINING/GRIP RINGS

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	14803500A	-----
20A FA	-----	82895800A



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