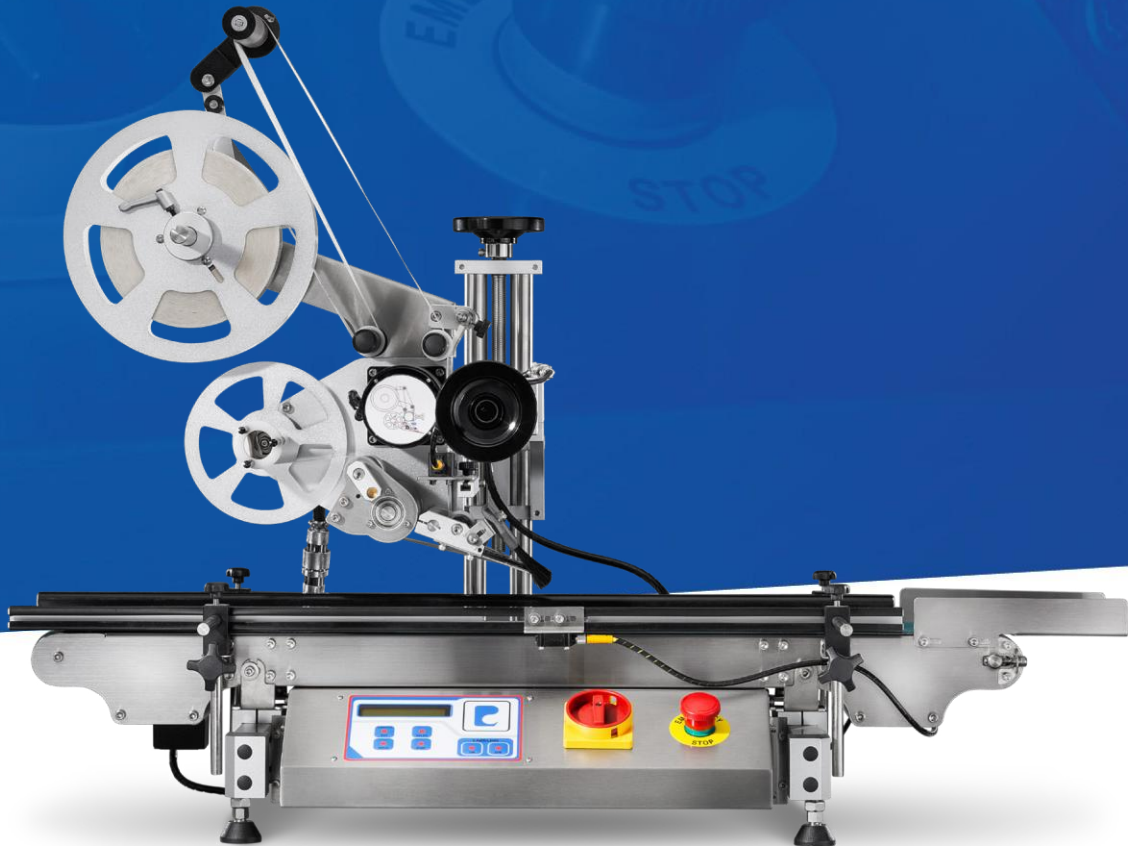


OPERATION MANUAL



A portable machine for top label applications
with the efficiency and mobility desired in small production runs

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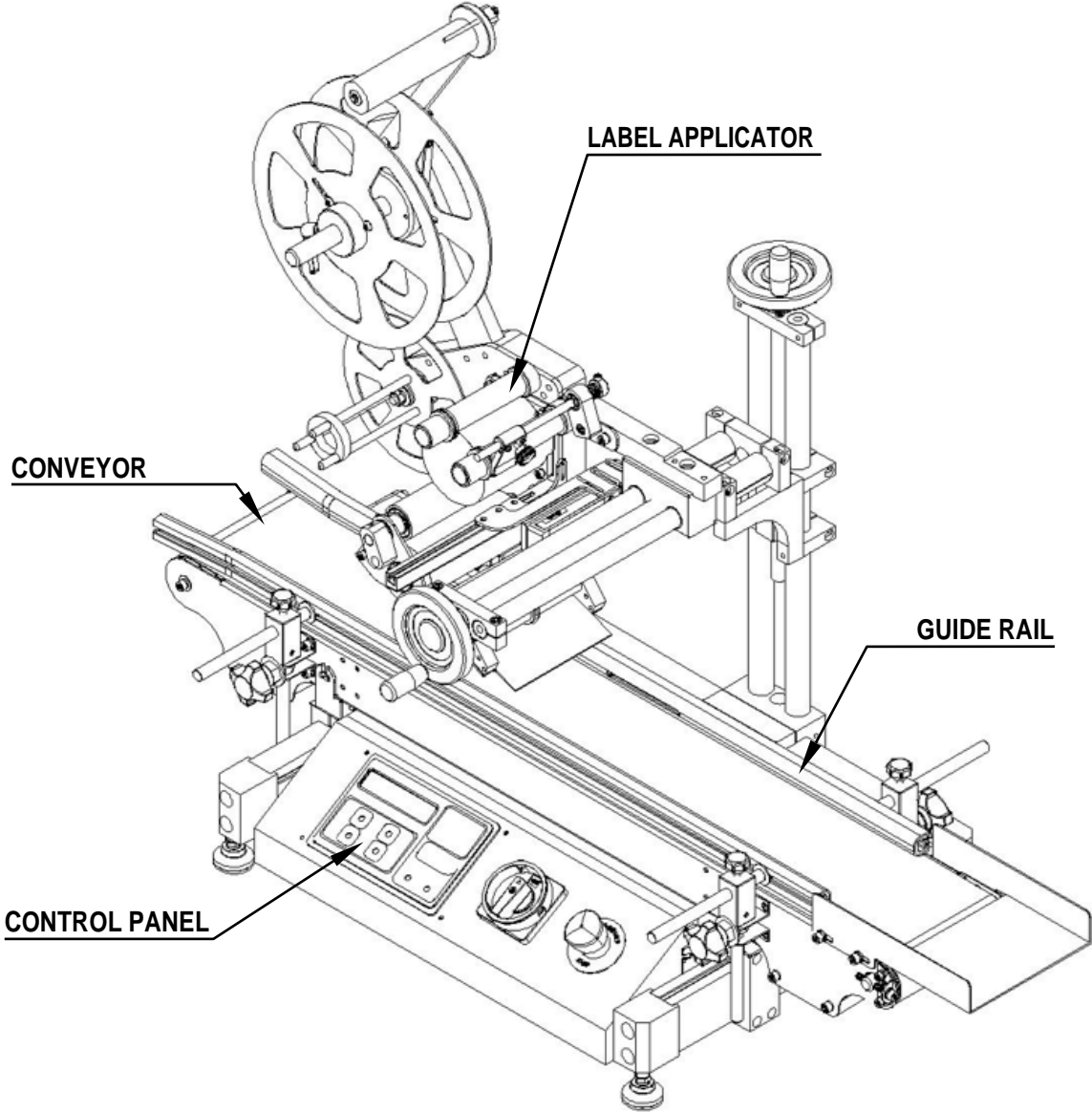
FOOT STAND

- 56 Foot Stand

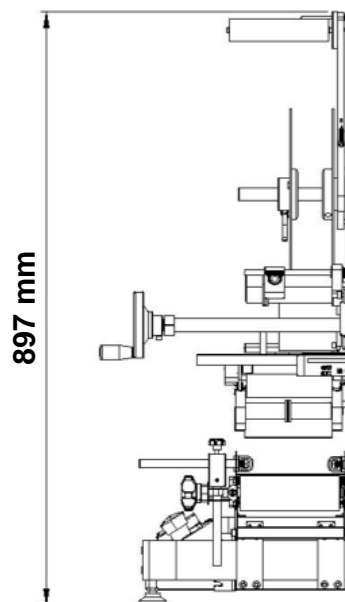
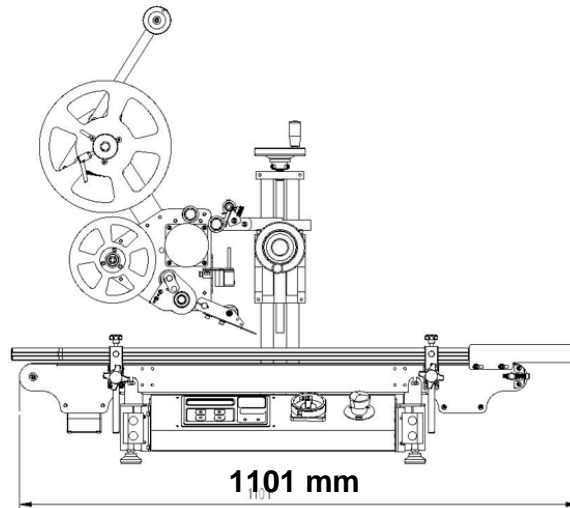
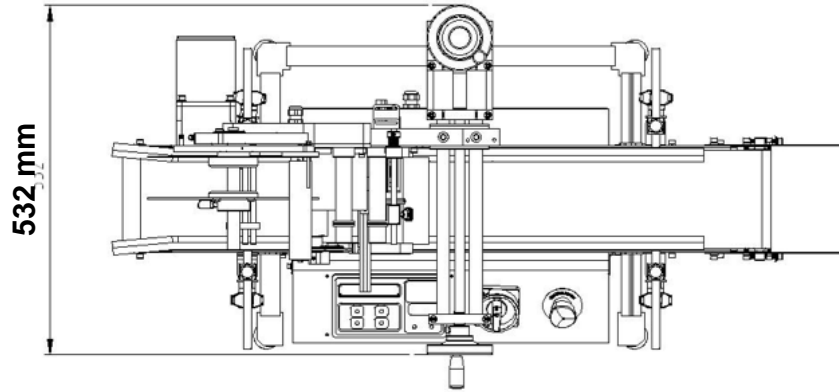


MACHINE SPECIFICATIONS

MACHINE SUB-ASSEMBLIES



MACHINE DIMENSIONS



MACHINE DIMENSIONS

LABEL TYPE

Top

SPEED

Maximum Dispensing Speed:
52.5'/minute, (16m/minute),
60 cont/minute

Maximum Conveyor Speed:
52.5'/minute, (16m/minute),
60 cont/minute

DIMENSIONS

Dimensions L-W- H:
43.3" x 20" x 35"
(1100mm x 508mm x 889mm)

Maximum Label Size:
4.75" x 11.8" (120mm x
300mm)

Maximum Container Width:
6" (152.4mm)

Maximum Container Height:
4.75" (Flat 120mm)

Conveyor Width: 6" (152.4mm)
Spool Diameter: 10" (254mm)
Inner Core: 3" (76mm)

POWER

Voltage: 110/220 VAC 50/60
HZ 1 Phase

Power in KW: .400

Drive: 2 Phase Stepper Motor

NET WEIGHT

Approx 132 lbs (60 kgs)

Flexibility

- The ELF-20's standard one-button teach product and label sensors can be effortlessly adjusted for various labeling applications. And, with the manual position setting, your labels are placed accurately on the product, each and every time.
- It's easy to upgrade the ELF-20 to activate hot-foil printer controls. This integrated feature simplifies label customization and allows the hot-foil printer to work in sync with the labeler to ensure accurate code placement.
- Thanks to the user-friendly operating interface, changing to different labeling applications for various product sizes and types can be done simply and quickly.

Productivity

- A production preset function means the machine automatically stops once the predetermined quantity of products has been labeled.
- The label count feature lets you precisely track progress at any point during the production run.
- The container/production run counter lets you see the exact production number for the day.
- The ELF-20 features a battery-free microprocessor control system that maintains default settings and memory even after the machine sits idle for a long period of time. Up to five settings can be stored for future use, so you don't have to waste time re-entering the necessary information.

Accuracy

- The ELF-20's stepper motor essentially counts the "steps" necessary to reach the next label, ensuring fast, accurate label delivery.
- The ELF-20's controls are fully synchronized, ensuring that all components run at the same speed.

Practicality

- The ELF-20 can be easily and conveniently moved to other production areas, allowing for changes in production or products.
- The ELF-20 is easy to work on and to adjust, putting everything you need at your fingertips with the removal of just a few screws.
- All Pack Leader USA labelers are made of 304 stainless steel and anodized aluminum. This extremely durable metal is specially treated to guard against rusting and other effects from harsher environments.

Compliance

- All Pack Leader USA labelers are manufactured in compliance with Good Manufacturing Practices (GMP) standards and meet the strict ISO 9001 quality control procedures. So, you can have confidence undergoing required quarterly inspections from industry compliance auditors.

SPECIFICATION OF LABEL REEL

Base Paper:

Opaque or Translucent

Reel Inner Diameter:

3" (76 mm)

Reel Outer Diameter:

9.8" (250) mm

Interval of Label:

Min. 3 mm (between label)

Width of Base Paper:

Label Width + 4 mm

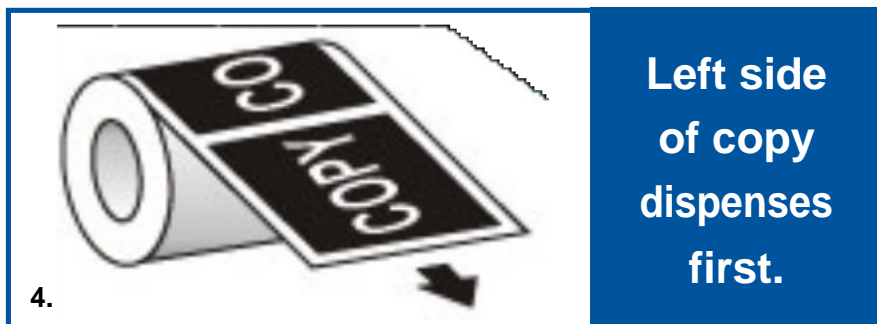
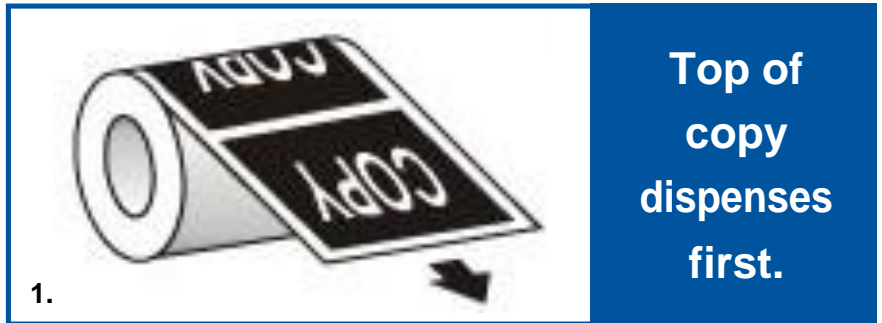
Width of Label:

120 H Label Head – 10~120 mm

Length of Label:

15 ~ 300 mm

Copy positions 1-4 labels wound out:



NOTE: Label gap must not exceed 5mm or the machine will not function properly.



GENERAL INFORMATION

SAFETY REGULATIONS

INSPECT BEFORE OPERATING

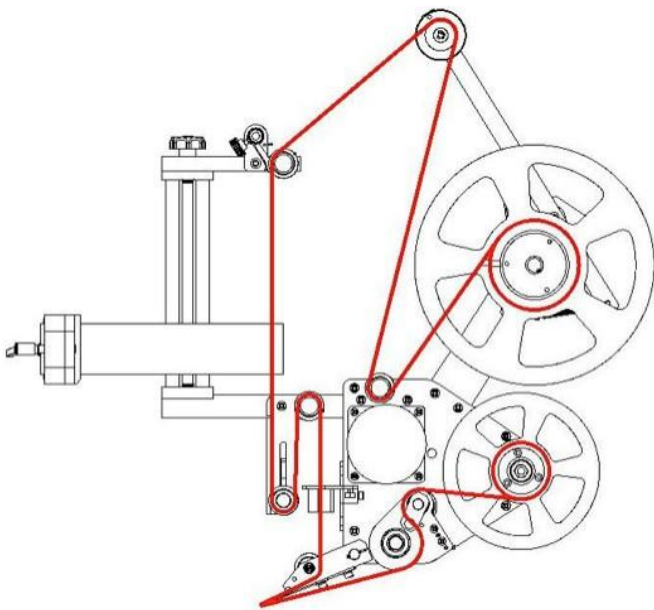
- Make sure the power is connected to the correct power source
- Adjust the object sensor to the correct position
- Adjust label sensor to the proper setting



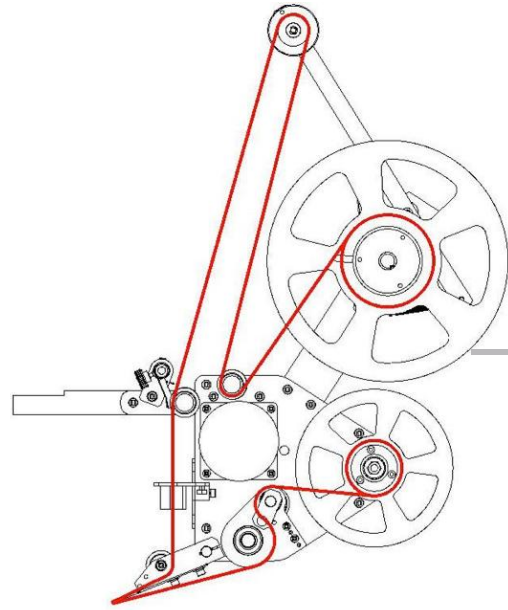
Be sure hands are completely dry before inserting the plug into the outlet. Especially, in the food industries or in wet environments.

LABEL APPLICATOR

Follow these instructions to insert the labels into the label applicator.



WITH PRINTER



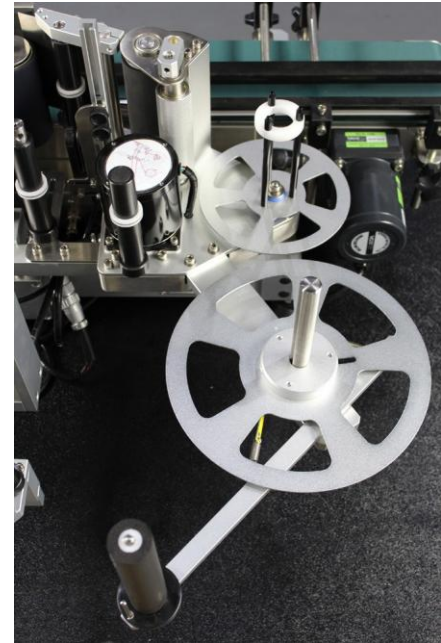
WITHOUT PRINTER

1. Place the label roll on the supply plate and pass the labels around the tension roller to control over rotation of the roll.
2. Secure the labels by adding tension to the label press pad. This will prevent the labels from running loosely.
3. If a printer is installed, pass the labels between the print head and the print pad of the printer.
4. It is important for the labels to pass through the forks of the label sensor and make contact with one side. The label sensor controls the dispensing of the labels.



LABEL APPLICATOR

- 5. The dispensing plates peel the label from the base paper and apply it to the products.
- 6. The PU drive roller pulls the base paper to apply the labels. The aluminum knurled roller must be closed and locked in place with the PU roller in order to squeeze the base paper and pull effectively. See below.



OPENED

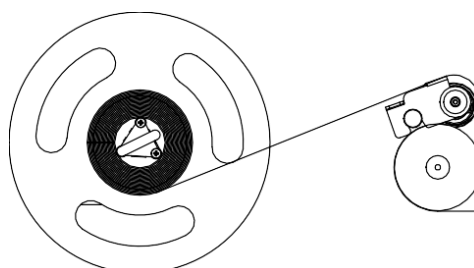


CLOSED



BASE PAPER COLLECTOR

- 7. Remove the collector cap on the base paper collector and wind the base paper through the collector rods. Then reinstall the collector cap to secure the collector rods and ensure proper pickup tension.



SENSITIVITY ADJUSTING OF LABEL SENSOR

1. Remove a label from the backing substrate before the sensor.
2. On the control panel, hold down “LENGTH SET” (Figure 1) until the backing substrate only is positioned in the sensor (Figure 2).
3. On the label sensor, hold down the “NORMAL” button until the green LED flashes and then turns solid (Figure 3).
4. Again, hold down “LENGTH SET” on the control panel until the next label is positioned in the sensor. If the sensor is setup correctly, the green and red LED will be on when a label is positioned in the sensor. Also, check the control panel and confirm that the counter for “LENGTH SET” is increasing and holding the count after you release the “LENGTH SET” button (Figure 4).
5. Lastly, position the next label to dispense no more than 3mm past the end of the peel plate.

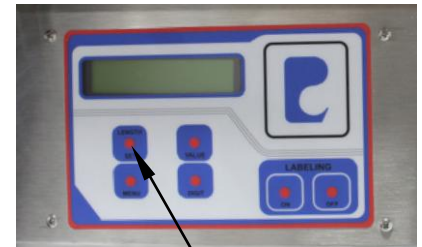


FIGURE 1 LENGTH SET



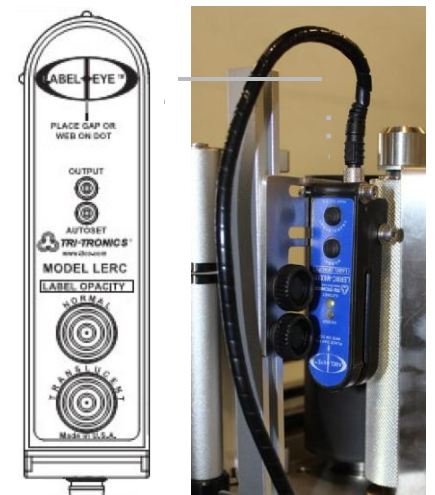
FIGURE 2



FIGURE 3



FIGURE 4



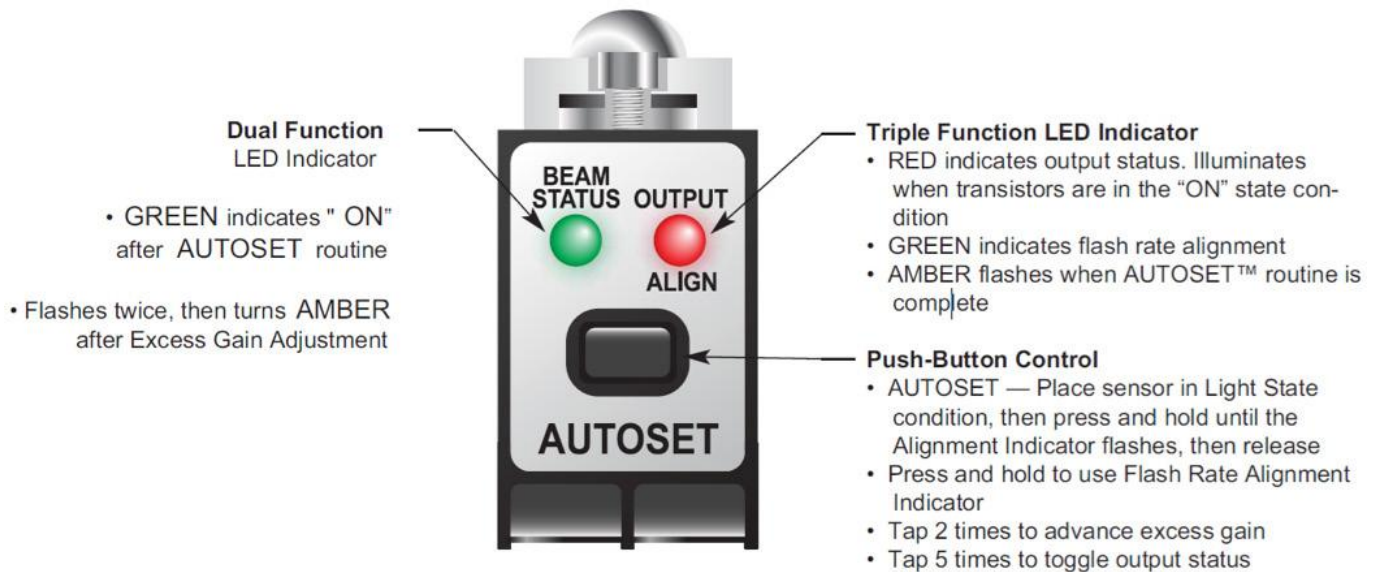
LABEL SENSOR

NOTE: This sensor cannot detect transparent labels.

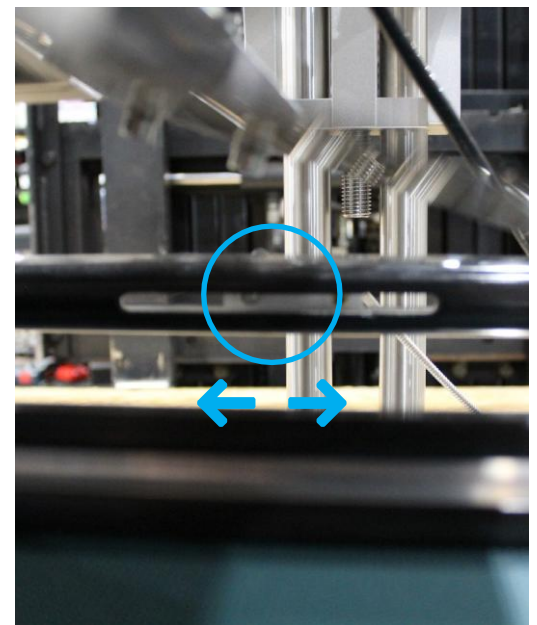
NOTE: The status of the red LED and output transistors can be inverted by pressing both buttons simultaneously. When the output status has been inverted, the red LED and the output transistors will turn off when the label comes into view.

OBJECT SENSOR

The object sensor is a fiber optic infra-red sensor use to detect the presence of bottle on the labeling zone. If the sensor is not able to detect a bottle, adjust the intensity of the amplifier until the sensor is able to trigger the applicator to apply a label.

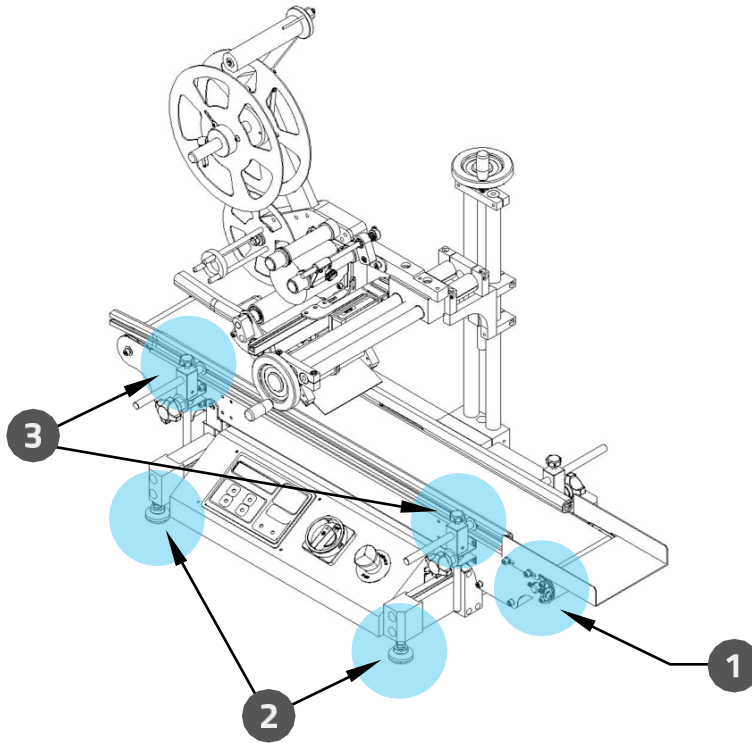


1. If sensor moves too far right, the label will come out too late and will not be applied to the bottle.
2. If sensor moves too far left, the label will come out too early and possibly cause vertical wrinkles.
3. The proper position of the sensor is to make sure the label is dispensed and applies to the apex of the bottles' surface.



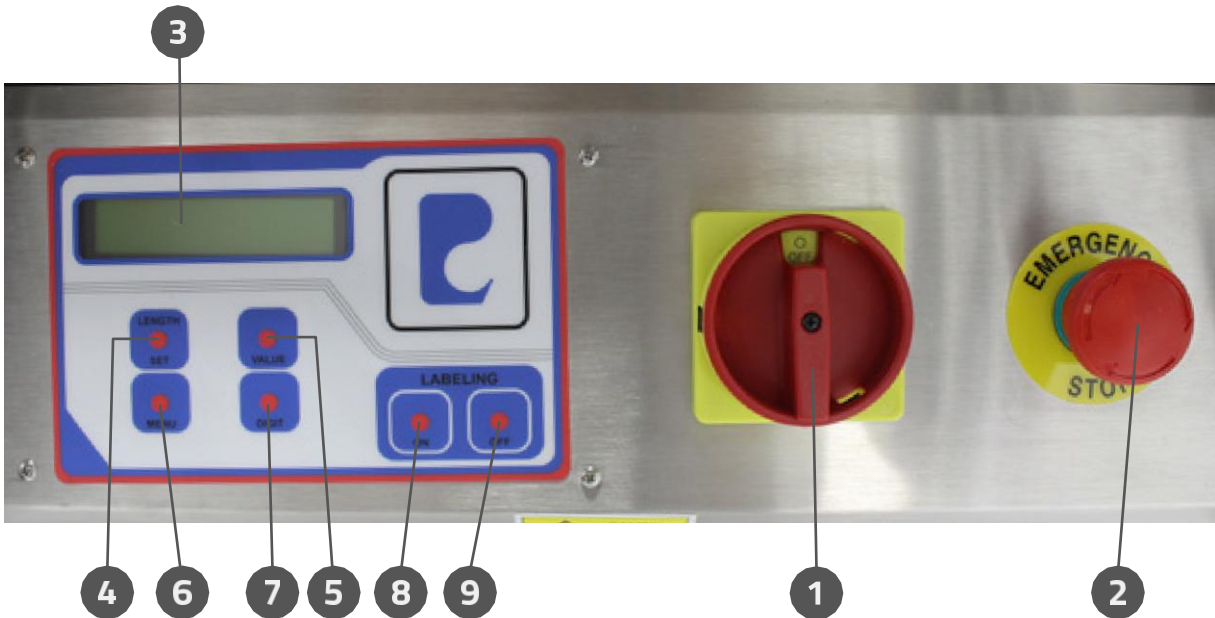
NOTE: The label position can be controlled through the control panel using the label position function.

PARTS ADJUSTMENTS



- 1** **Conveyor adjustment:** To adjust the tightness of the conveyor belt, turn the two screws. Turn counter clockwise to loosen and clockwise to tighten. Make sure the conveyor is centered. If not it can cause the belt to wear prematurely.
- 2** **Conveyor height adjustment:** Adjust the four footing screw to adjust conveyor to the appropriate height.
- 3** **Guide rail adjustment screws:** To adjust the width of the conveyor guides, loosen the knobs and adjust the position. Tighten after the desired width has been adjusted.

CONTROL PANEL



CONTROL PANEL LIST

NO.	DESCRIPTION	FUNCTION
1	Main Power Switch	Cut off or connect to main power supply
2	Emergency Switch	Emergency cutoff of power supply
3	Liquid Crystal Display	Displays the data
4	Length Set	To set up the label length required
5	Value	To select the numeric value to be entered/on for printer
6	Menu	To exit and scroll the menu
7	Digit	To select the digits to be changed/off for printer
8	Labeling On	To turn on conveyor and start labeling
9	Labeling Off	To stop conveyor and make settings changes



MACHINE OPERATION

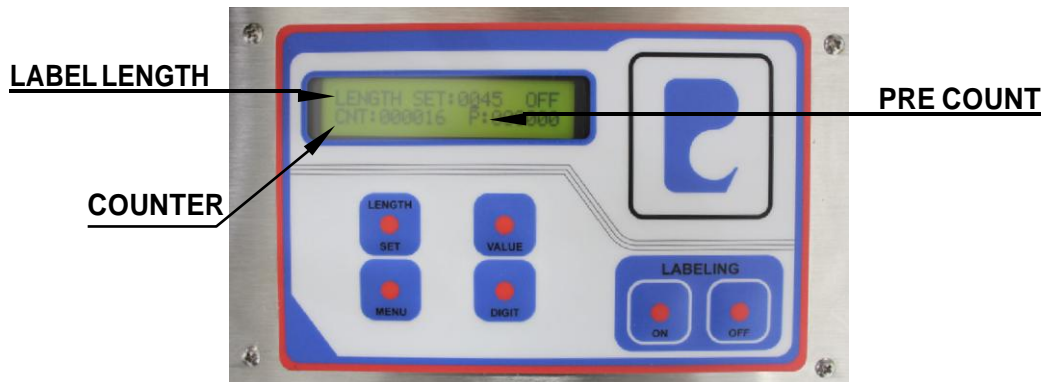
MACHINE OPERATION

PLEASE FOLLOW STEPS AND INSTRUCTION BEFORE MACHINE OPERATION.

- 1 Connect machine to the appropriate power source and make sure the Emergency Stop is not engaged.
- 2 Machine adjusted to product specification range.
- 3 The height of label applicator adjusted in appropriate position.
- 5 Object sensor adjusted in right position.
- 6 Label Sensor is calibrated to the backing material.
- 7 Conveyor is clear with no extra object.

NOTE: Load label roll as per instruction of the label web sticker on the applicator or see page 10.

CONTROL PANEL SETUP



PRECOUNT SETUP

- 1 Press menu to select "PRECOUNT" and press "DIGIT" to select the digit then press "VALUE" to set the numbers.
- 2 Press "MENU" to exit.



LABEL DELAY SETUP

- 1 Use "MENU" to select "LABEL POSITION" to change the value of the delay.
- 2 Use "DIGIT" to select the digit that you want to set and press "VALUE" to select value. The higher the number the longer the delay.



NOTE: The object sensor is set on delayed mode for wrap around so the "LABEL POSITION" function must be used to correct label placement.

- 3 When the "LABEL POSITION" is set to "00" the label applicator will dispense immediately.
- 4 Press "MENU" to exit.

CONTROL PANEL SETUP

LABEL HEAD SETUP

- 1 Press "VALUE" to turn the label head ON and press "DIGIT" to turn the label head OFF.



SPEED SETUP

- 1 Press "VALUE" to select speed 1-4.



PRINTER SETUP

- 1 Use "MENU" to select "PRINTER." Press "DIGIT" to turn "OFF" and press value to turn "ON." Press menu to exit.

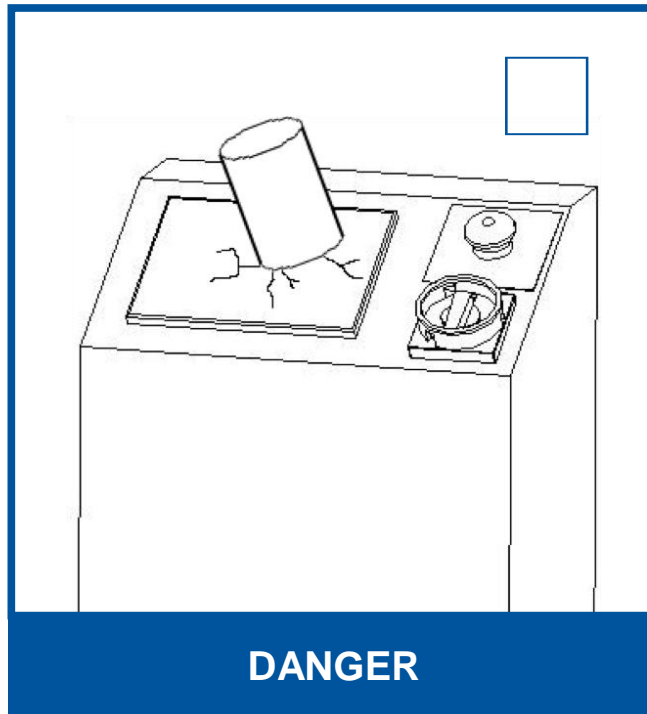


MEMORY SETUP

- 1 Turn off "LABELING," Press "MENU" and select "MEMORY STORE" then select memory location by using "VALUE." Store the data by pressing "LABEL LENGTH." All parameters of label length, batch counter and delay will be stored into the assigned memory slot.



CONTROL PANEL



- Do not bump or press heavily on control panel.
- Lightly press on any point inside the control panel to input data.
- Lightly press buttons with a finger to select appropriate button (do not use a tool or sharp object).



- Use a soft cleaner or wet cloth to clean the surface of the control panel.
- Operators are not advised to open the control panel to change any spare parts. if so, we are not responsible for any of the damages or injuries.

TROUBLE SHOOTING

PROBLEM 1: LABEL LENGTH CANNOT BE SET

A. LABEL SENSOR WAS NOT ADJUSTED PROPERLY

1. Inspect the condition of the label sensor. Please refer to "Sensitivity adjusting instruction of label sensor" section.
2. If label length still cannot be set, replace the label sensor.

B. STEPPING MOTOR DOES NOT WORK

1. Inspect that the wires are properly connected. If the wires are not connected, please connect them and reset the labeling applicator.
2. If the problem is not in the wiring, please contact **Pack Leader USA**.

PROBLEM 2: MORE THAN ONE LABEL IS DISPENSED AT A TIME

A. SENSITIVITY OF LABEL SENSOR

1. The sensitivity of label sensor is too weak; as a result, the sensor cannot (or sometimes cannot) detect the label.
2. Reset the sensitivity of label sensor. (Refer to sensitivity adjusting instruction of label sensor)

B. LABEL LENGTH WAS SET TOO LONG

1. Please reset the label length.

PROBLEM 3: LABEL WON'T DISPENSE

A. OBJECT SENSOR RESPONSE

1. Inspect that the object sensor responds on the product. If not, adjust the sensitivity of the object sensor until the label comes out.
2. If the label still won't dispense by adjusting the object sensor, inspect the wire or replace with a new one.

B. THE "LABELING" ICON OF LABELING SET WAS NOT TURNED ON

1. Please Turn "On" the labeling set icon.

C. THE FUSE OF THE STEPPER MOTOR DRIVER IS BURNED OUT

1. Replace with a new fuse.

D. THE WIRE OF THE STEPPING MOTOR OR MOTOR DRIVER IS DAMAGED

1. Please notify maintenance technicians.

TROUBLE SHOOTING

PROBLEM 4: LABEL IS SLANTING

- A. BOTTLE IS NOT EVEN
- B. LABEL IS DIAGONALLY PLACED ON THE BASE PAPER WHEN THE LABELS ARE MADE
- C. THE SLANTING OCCURRED WHEN LABELING. THIS IS CAUSED WHEN THE PEEL PLATE IS NOT SQUARE TO THE PRODUCT.

NOTE 1: If problem is found in A or B, you need to improve the bottle or label.

NOTE 2: If the problem is found in C, you need to adjust the applicator peel plate to the appropriate position.

PROBLEM 5: NO SCREEN DISPLAY

- A. CHECK IF POWER IS TURNED ON
- B. CHECK IF THE CONNECTION WIRE IS NOT CONNECTED OR DAMAGED

PROBLEM 6: LABEL WILL NOT STICK ON THE PRODUCT

A. LABEL COMES OUT TOO LATE

1. Decrease the value of the label peel delay. If value is set to 0 move the physical location of the object sensor to the left.

B. LABEL DOES NOT DISPENSE SMOOTHLY

1. Check whether the PU drive roller with a lock in the label applicator is locked. If not, lock it. If labels still do not dispense smoothly when locked, check if PU drive roller is locked too tightly by turning the PU drive roller. If not, loosen the screw in the lock of the PU drive roller and adjust backwards slowly until it is tight enough when you lock it again.

C. STEPPING MOTOR

1. If stepping motor is not running properly, check the wires, belt and other spare parts to see if they are damaged.
2. Replace stepping motor if defective.

D. PRODUCT & LABEL

1. Check whether the product surface is too wet or slippery or label has incorrect adhesive.

TROUBLE SHOOTING

PROBLEM 7: WRINKLES OR BUBBLE OCCUR WHEN LABELED

A. LABEL COMES OUT TOO EARLY

1. Move the object sensor left to an appropriate position to test labeling. If the label still comes out too early, move to step 2.
2. Increase the value of the label peel delay in LABELING MODE menu.

B. THE POSITION OF LABEL IS NOT ACCURATE

1. Check whether the front of the dispensing plate is square.
2. The label sensor is in an unusual position. Please inspect the label sensor or replace with a new one.
3. The gap between the labels are not consistent.

C. BOTTLE CONDITION

1. Surface of product is not consistent.

D. BACK PRESSURE PLATE

1. Back pressure plate is too tight

PROBLEM 8: CONVEYOR DOES NOT WORK

A. WILL NOT RESPOND ON THE TOUCH SCREEN

1. Please re-start the machine.
2. After restarting the machine, if the conveyor still does not work contact **Pack Leader USA**.

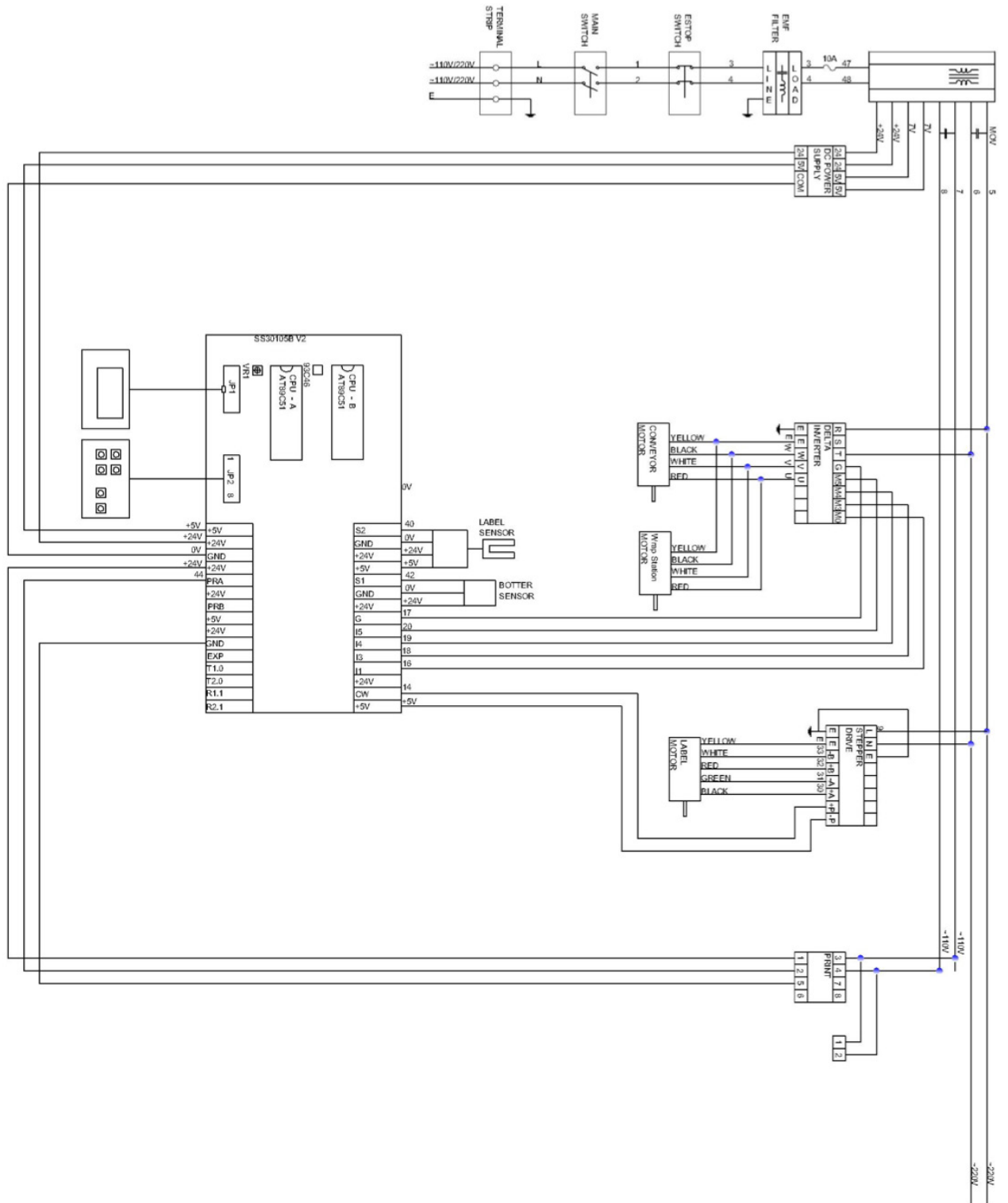
B. CONVEYOR MOTOR

1. Gearwheel belt is damaged or loose.
2. Check wires for damage.

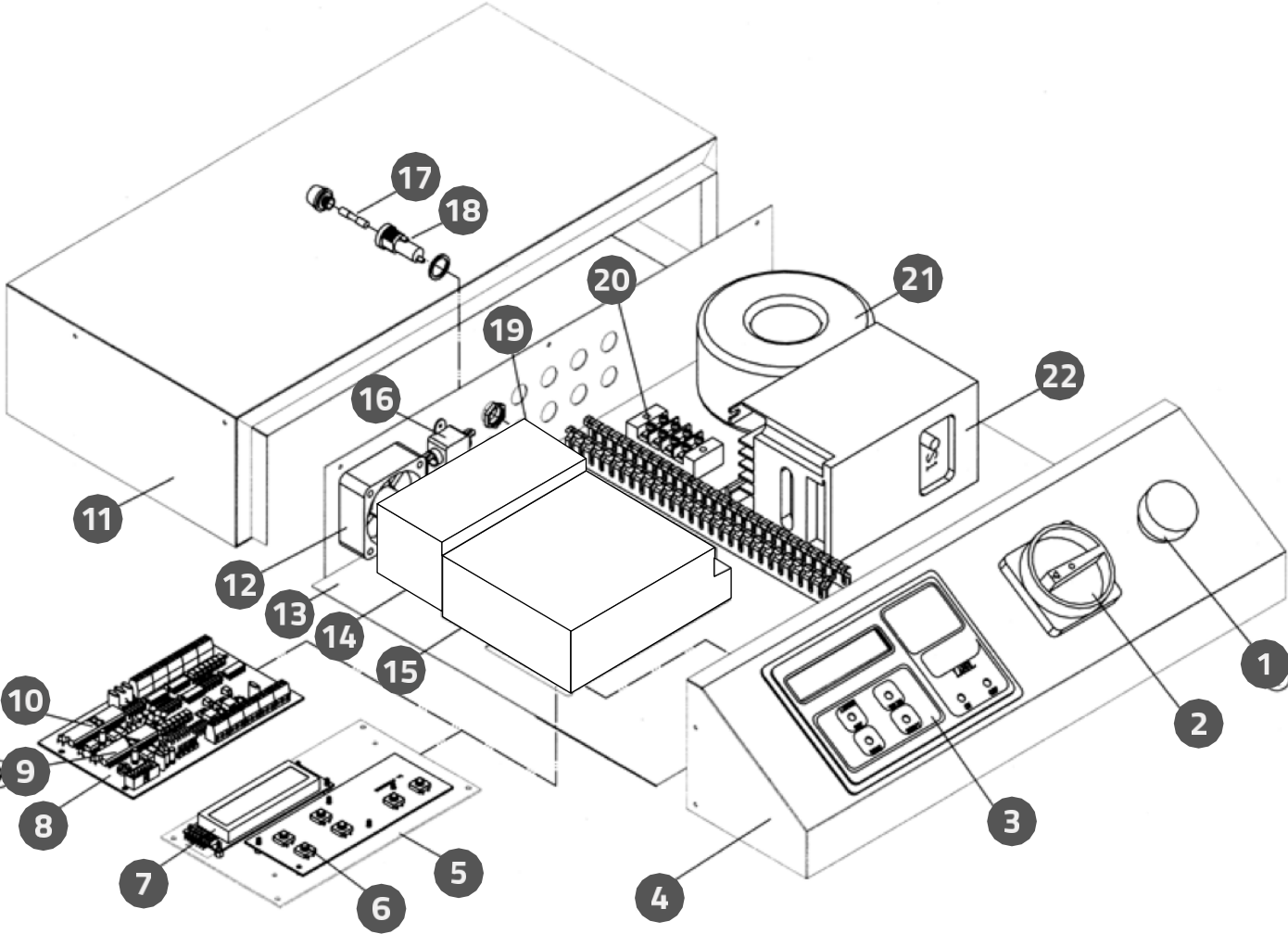


ELECTRONIC PANEL

ELECTRONIC DIAGRAM



CONTROL BOX FRAME



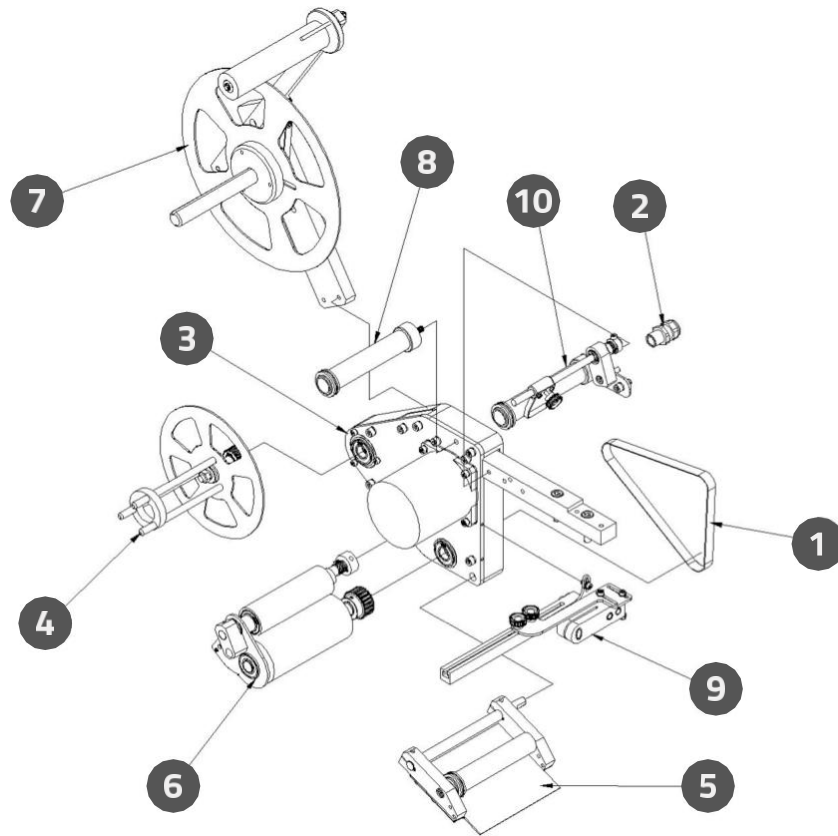
CONTROL BOX FRAME PARTS LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Button Fixing Plate	CS1-ELF-004	1
2	Push Button	2YPCB-SS30326A	1
3	LCD Display	C-1040	1
4	IC Chip 89S51-24PU	2YIC-89S5124AT	1
5	IC Chip 89C51(ATMEL)	2YIC-89C51	1
6	PC Board SS30105B V2	2YPCB-SS30105B	1
7	2 Phase Stepper Driver DA2D20B	2YF2-DA2D20B	1
8	Power Supply RD35B	2YE2-RD35B	1
9	6cm Fan Cover	2Y2G-SF06	2
10	6cm 24VDC Fan with 40cm Wire	2Y2G-QZG-MGAC24V6025HB	1
11	EMI Filter YC20T1(20A/250VAC)	2YXQF-20A250VAC	1
12	Fuse Barrel (30mm) UL	C-1704	1
13	Fuse 10A (30mm) UL	C-1708	1
14	Control Box Top Cover	CS1-ELF-006	1
15	Terminals 4 Pin TB25-4	C-1508	1
16	Base	CS1-ELF-001C	1
17	Transformer (240,230,220→110,24,7 4A)	2Y1U-2301104A	1
18	Base For Inverter	CS1-ELF-005	1
19	Inverter VFD004S23A (220V,400W)	2Y1Q-VFD002S23A	1
20	Emergency Cutoff Switch Sign 800E-15YE112	51WR-800E15YE112	1
21	Emergency Cutoff Switch PPN1R4N	C-1403	1
22	Main Switch CQ1203KL6(16A,3P)	C-1400	1
23	Push Button	2YPCB-SS30326A-1	
24	Main Board	CS1-ELF-002B	



APPLICATOR

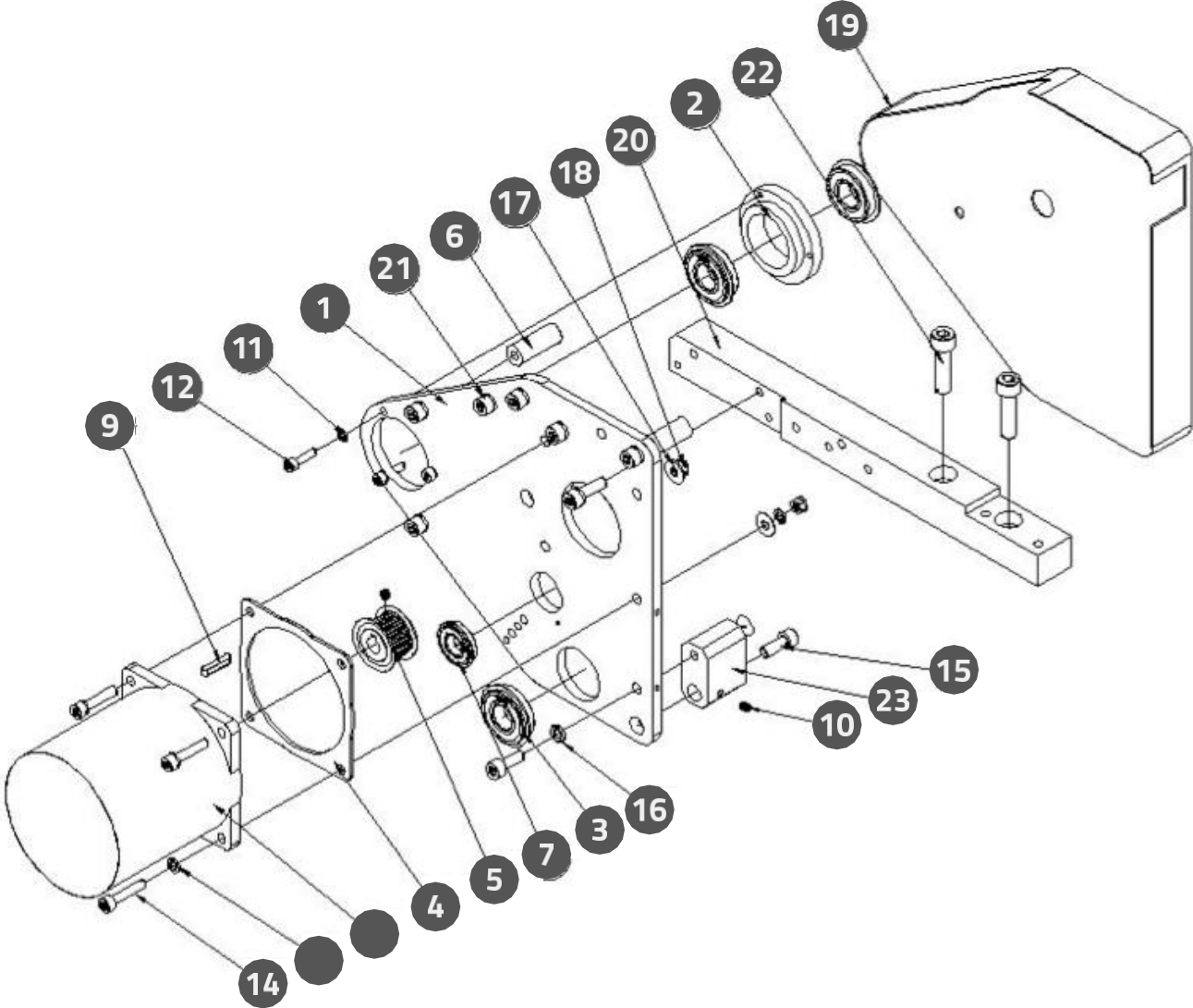
APPLICATOR EXPLODED VIEW



APPLICATOR EXPLODED VIEW PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Timing Belt 200XL050	T2Q2-200XL050	1
2	Cable Connector	QVQR-MG16A-10B	1
3	Applicator Motor Assembly	See page 31	1
4	Base Paper Collect Assembly	See page 33	1
5	Label Peel Plate Assembly	ELF1050501	1
6	Applicator Driving Assembly	See page 35	1
7	Label Supply Plate Assembly	See page 40	1
8	Label Roller Assembly	See page 42	1
9	Label Sensor Base Assembly	See page 43	1
10	Label Load Assembly (Without Printer)	See page 44	1

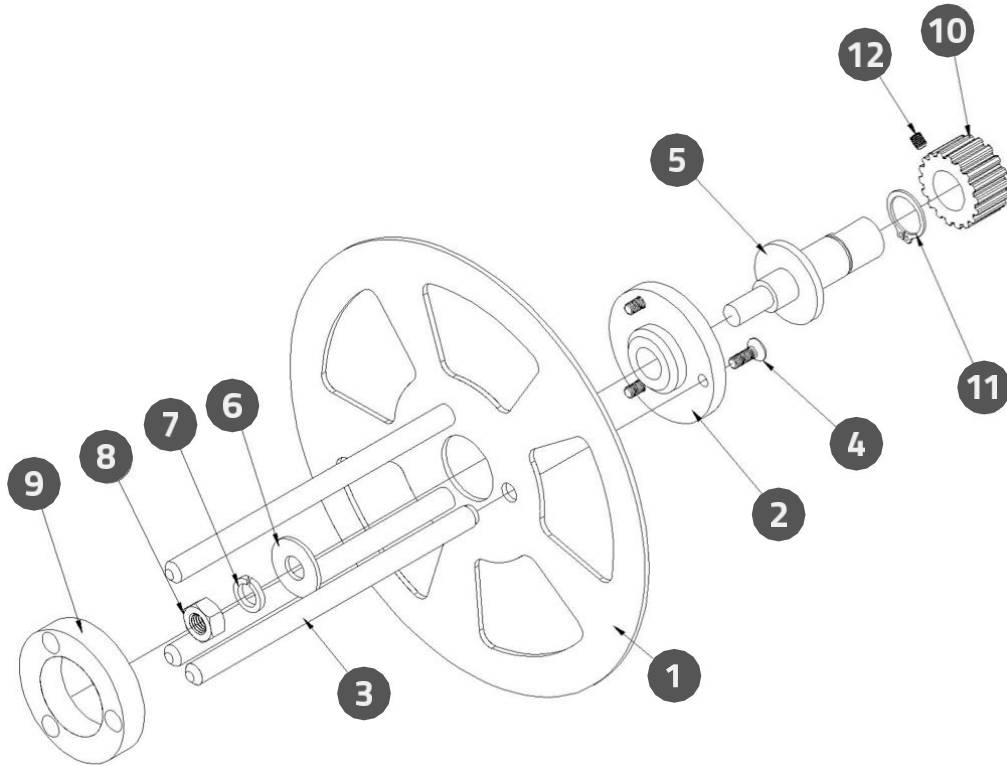
APPLICATOR MOTOR ASSEMBLY



APPLICATOR MOTOR ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Applicator Base Plate	ELF1050501-001	1
2	PU Roller Bearing Seat	LA1-ELF-021	1
3	Bearing 6002NR	5TGH-6002NR	3
4	Pad Of Stepper Motor	LA1-ELF-023	1
5	Motor Gear	LA1-ELF-040	1
6	Spacing Rod	LA1-ELF-022	3
7	Bearing 6901NR	5TGH-6901NR	1
8	Stepper Motor	A21R-DA29902H8	1
9	Double Head Round Keys	RGM-4420	1
10	Socket Set Screw	XN5Z-M45	2
11	Spring Washer-M4	2FWO-M4	3
12	Socket Head Cap Screws	XNJW-M416	3
13	Spring Washer-M6	2FWO-M5	6
14	Socket Head Cap Screws	XNJW-M525	4
15	Socket Head Cap Screws	XNJW-M616	5
16	Spring Washer-M6	2FWO-M6	8
17	Washer-M5	XNQC-M5	2
18	Nut-M5	XAXR-M5	2
19	Back Cover	ELF1050501-002	1
20	Main Rod	ELF1050501-017	1
21	Socket Head Cap Screws	XNJW-M620	4
22	Socket Head Cap Screws	XNJW-M830	2
23	Spacing Block	ELF1050501-032	1

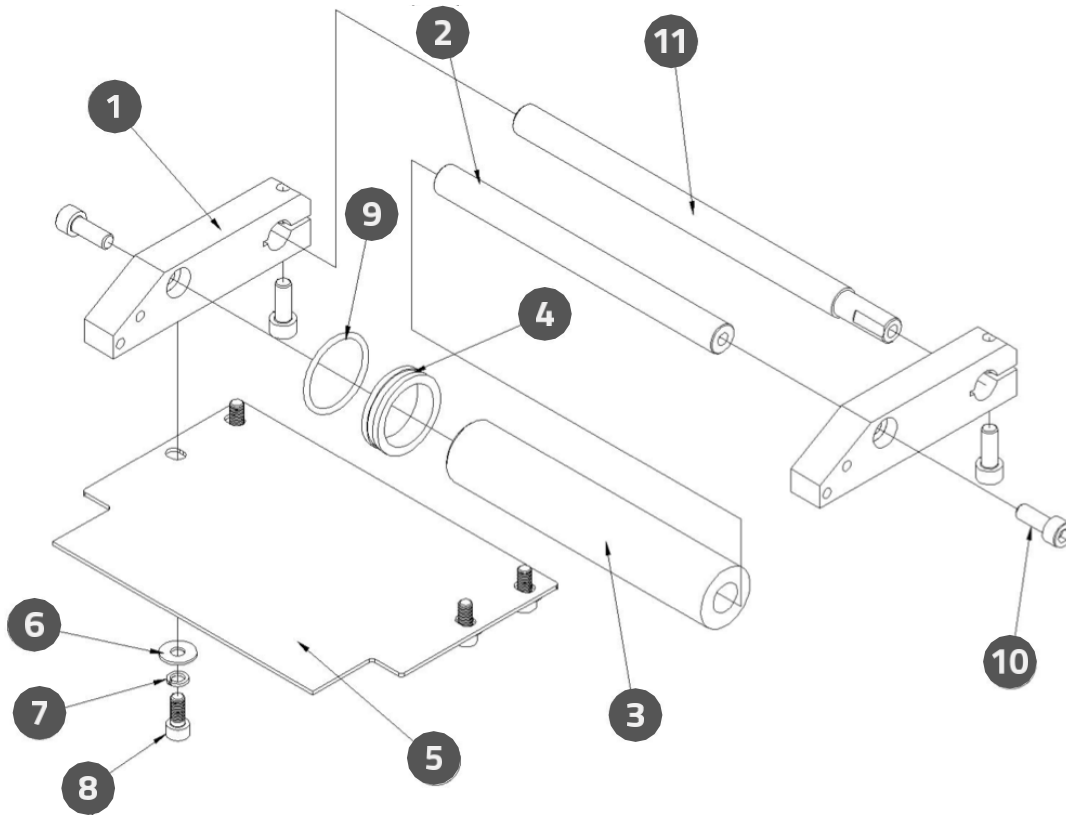
BASE PAPER COLLECT ASSEMBLY



BASE PAPER COLLECT ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Paper Collect Plate	LA1-ELF-018	1
2	Paper Collect Base	LA1-ELF-017	1
3	Collector Rods	LA1-ELF-019	3
4	Philips Head Screws	XNMW-M415	3
5	Paper Collect Shaft	LA1-ELF-020	1
6	Washer	XNQC-M8	1
7	Spring Washer	2FWO-M8	1
8	Screw Nut	XAXR-M8S	1
9	Collector Cap	LA1-ELF-039	1
10	Collector Gear	LA1-ELF-041	1
11	S-Ring S15	DCSV-S15	1
12	Socket Set Screw	XN5Z-M45	1

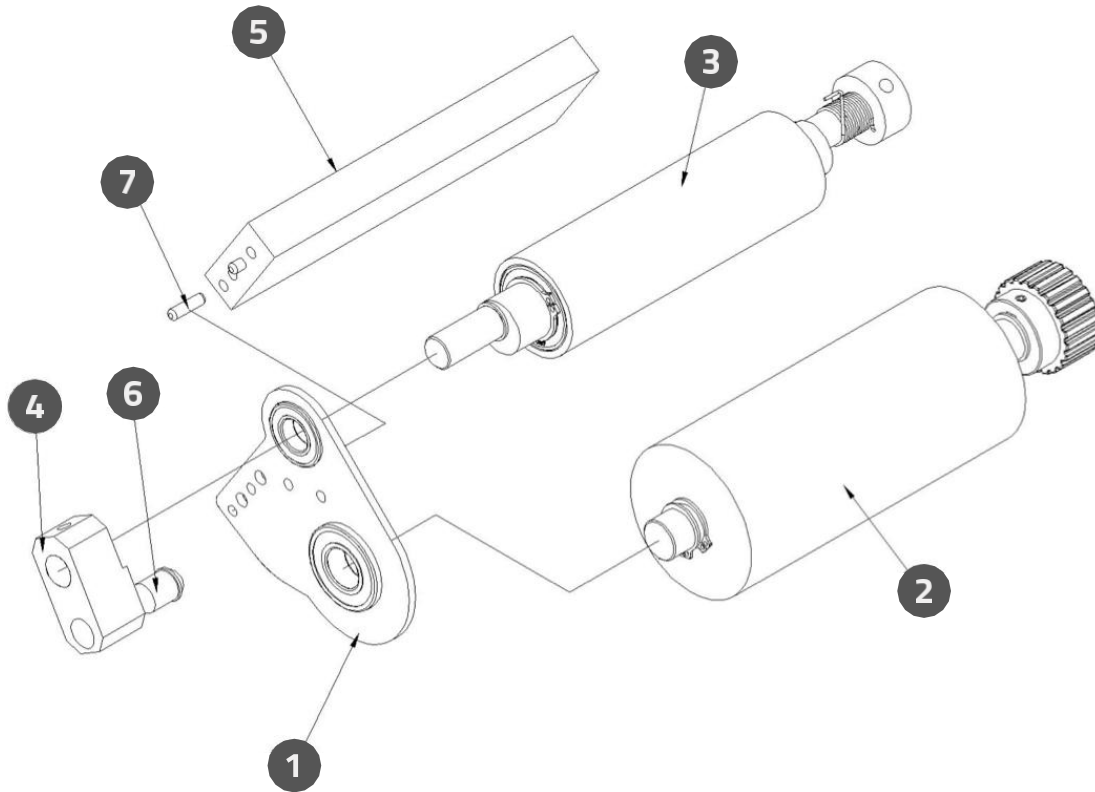
LABEL PEEL PLATE ASSEMBLY



LABEL PEEL PLATE ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Dispenser Base	ELF1050501-004B	2
2	Dispenser Fixing Shaft	LA1-ELF-011	1
3	Label Roller	LA1-ELF-013	1
4	Label Roller Sleeve	LA1-ELF-038B	1
5	Dispenser Plate	ELF1050501-005	1
6	Washer	XNQC-M5	4
7	Spring Washer	2FWO-M5	4
8	Socket Head Cap Screws	XNJW-M512	4
9	Spring	LA1-PL150-052	1
10	Socket Head Cap Screws	XNJW-M616	4
11	Peel Plate Rod	ELF1050501-003B	1

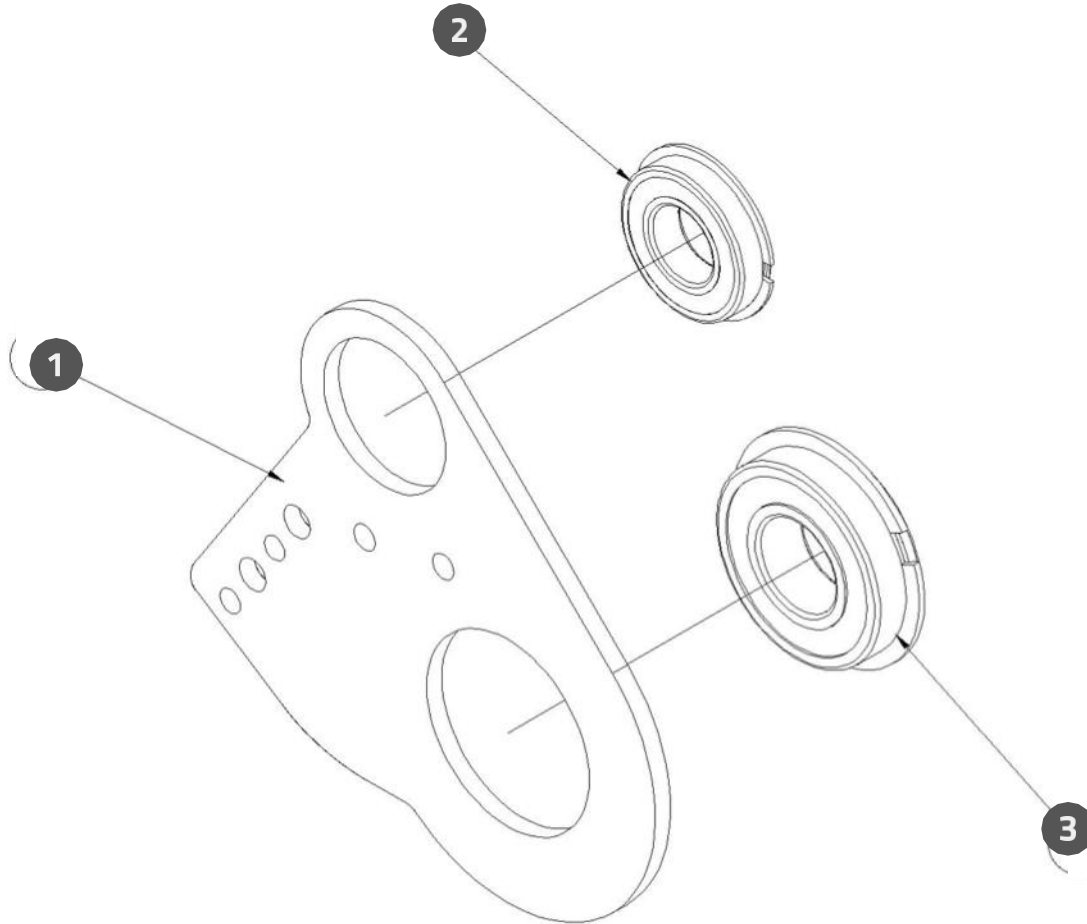
APPLICATOR DRIVING ASSEMBLY



APPLICATOR DRIVING ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Bearing Seat Fixing Plate Assembly	See page 35	1
2	PU Roller Assembly	See page 36	1
3	Aluminum Knurled Roller Assembly	See page 37	1
4	Aluminum Knurled Roller Lever	LA1-ELF-009	1
5	Aluminum Block Mount	LA1-ELF-006C	1
6	Ball Plunger	51WR-9.5	1
7	Position pin	51WR-MSSC0415	2

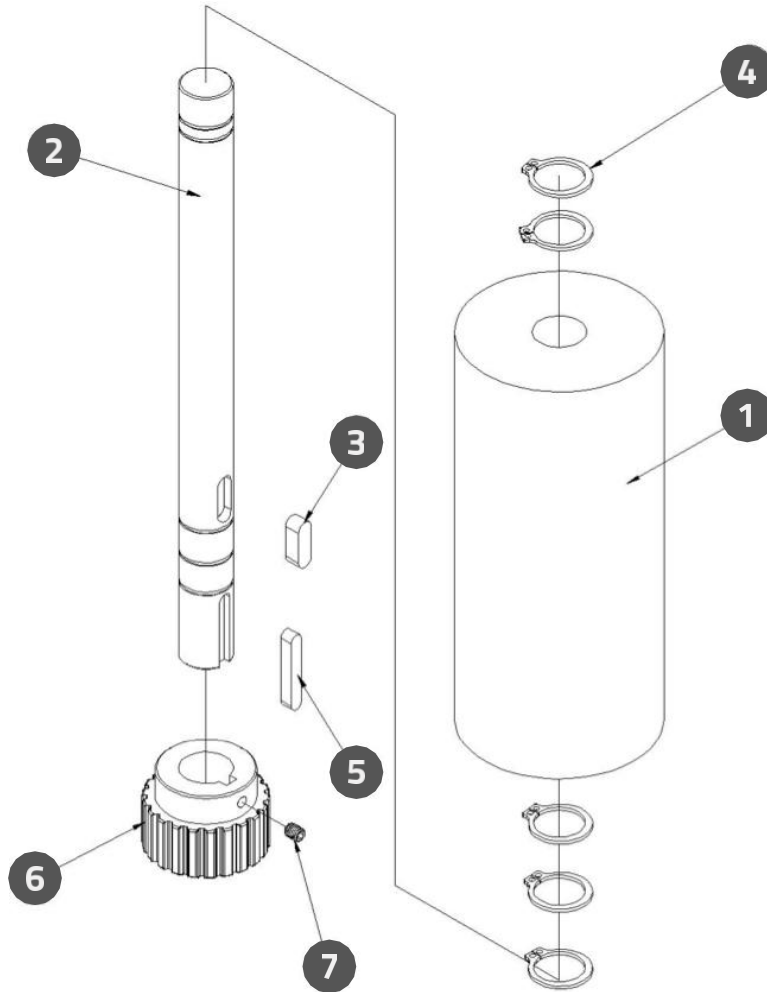
BEARING SEAT FIXING PLATE ASSEMBLY



BEARING SEAT FIXING PLATE ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Bearing Seat Fixing Plate	ELF1050501-009	1
2	Bearing	5TGH-6901NR	1
3	Bearing	5TGH-6901NR	1

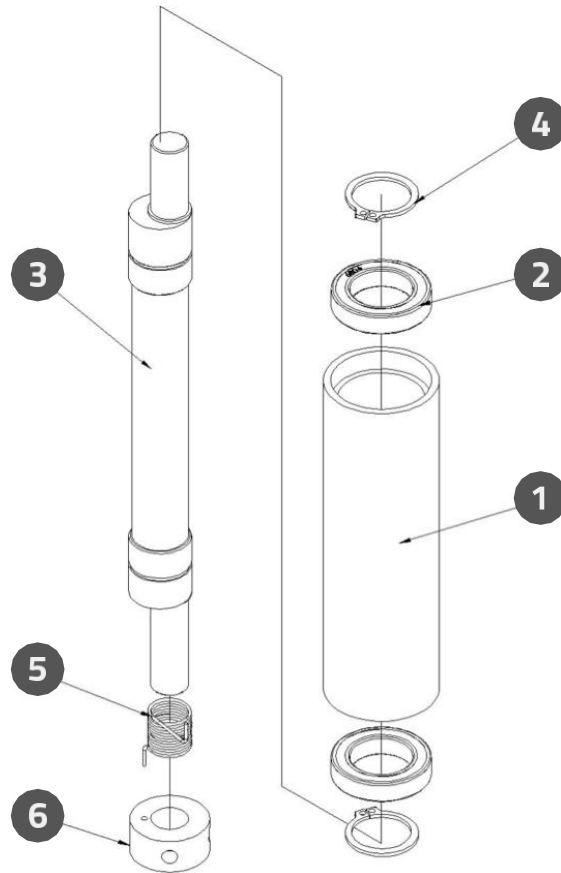
PU ROLLER ASSEMBLY



PU ROLLER ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	PU Roller	LA1-ELF-005	1
2	Roller Shaft	ELF1050501-007B	1
3	Bearing 6002NR	RGM-5515	1
4	S-Ring S15	DCSV-S15	5
5	Double Head Round Keys	RGM-4425	1
6	Pulley of PU Roller	T2Q2X-22XL050154	1
7	Socket Assembly Screw	XN5Z-M45	1

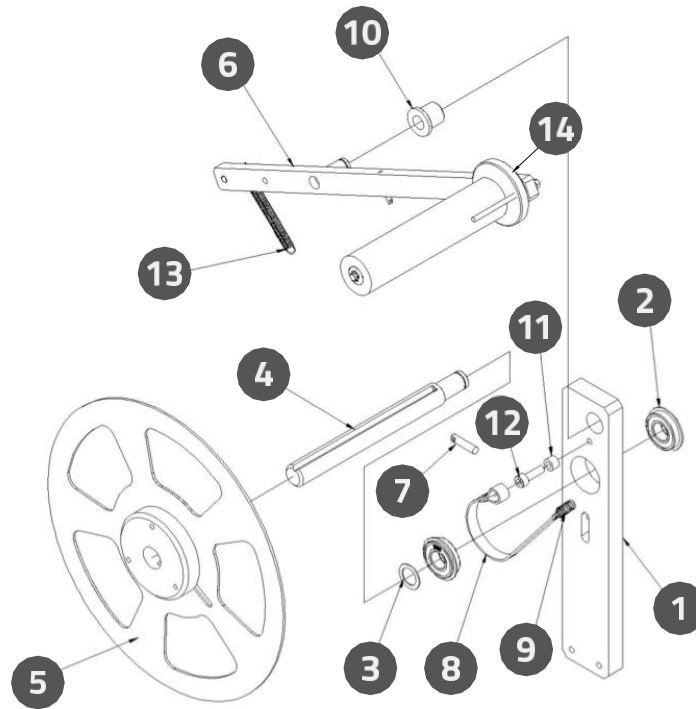
ALUMINUM KNURLED ROLLER ASSEMBLY



ALUMINUM KNURLED ROLLER ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Aluminum Knurled Roller	LA1-ELF-007	1
2	Bearing 6804ZZ	5TGH-6804ZZ	2
3	Aluminum Knurled Roller Shaft	ELF1050501-008	1
4	S-Ring	DCSV-S20	2
5	Spring of Tension Bar	LA1-ELF-024	1
6	Spring Seat	LA1-ELF-025	1

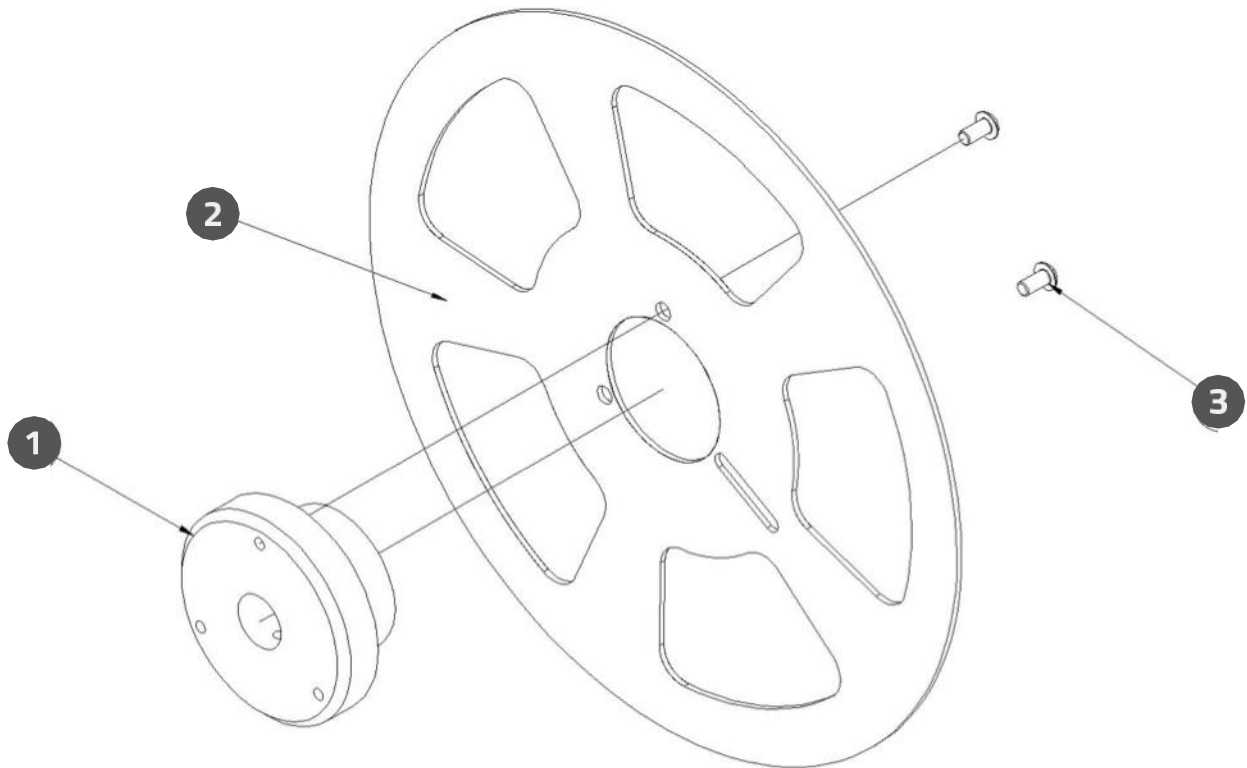
LABEL SUPPLY ASSEMBLY



LABEL SUPPLY ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Feeding Tray Base	ELF1050501-010	1
2	Bearing	5TGH-6002NR	2
3	Feeding Shaft Pad	ELF1050501-012	1
4	Feeding Tray Shaft	ELF1050501-011	1
5	Label Supply Plate Assembly	See page 39	1
6	Tension Bar Assembly	ELF1050501	1
7	Pillar	51WR-SWIPOZ0625	1
8	Brake Belt	ELF1050501-027	1
9	Spring	51WC-WUT8-30	1
10	Self Run Bearing	AFM-1218-20	1
11	Brake Belt Block	ELF1050501-026	1
12	Socket Head Cap Screws	XNJW-M620	1
13	Spring	51WC-WUY8-70	1
14	Tension Bar Assembly	See page 40	1

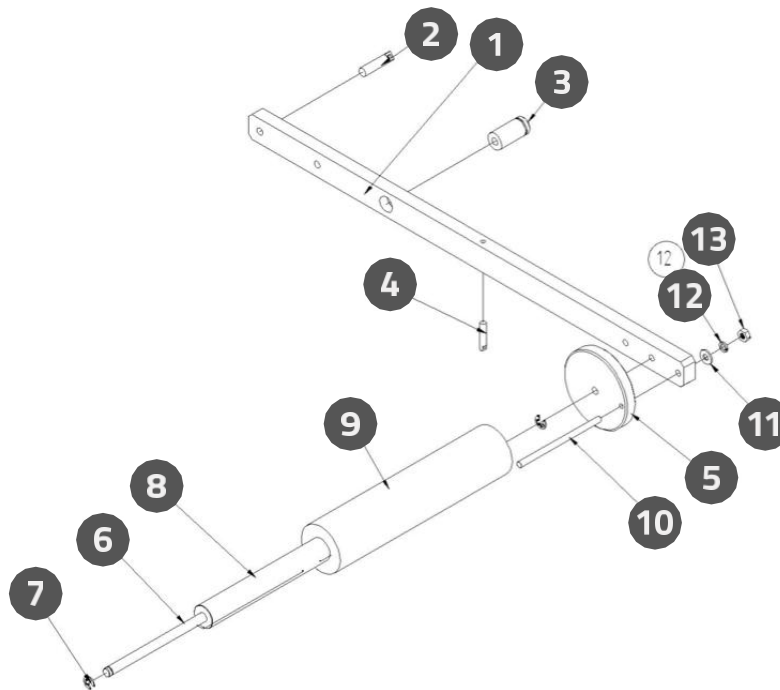
LABEL SUPPLY PLATE ASSEMBLY



LABEL SUPPLY PLATE ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Lock Block	ELF1050501-013B	1
2	Label Feed Tray	LA1-ELF-033	1
3	Socket Button Head Cap Screws	XN1M-M516	2

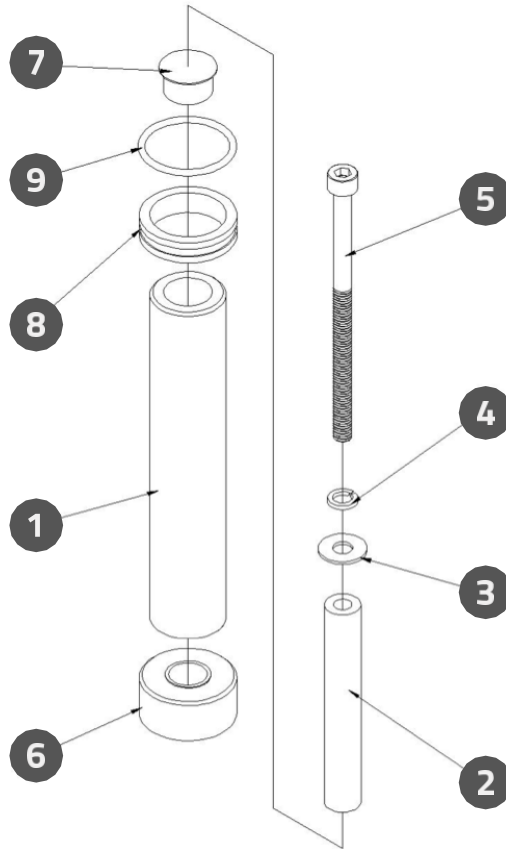
TENSION BAR ASSEMBLY



TENSION BAR ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Tension Bar	ELF1050501-014	1
2	Spring Rod	51WR-SWIPOZ0625	1
3	Tension Bar Rotating Shaft	ELF1050501-016	1
4	Spring Rod	51WR-SWIPOZ0420	1
5	Tension Bar Pad	ELF1050501-015	1
6	Roller Shaft of Tension Bar	LA1-PL150-065	1
7	E-Ring E4	DCEV-E4	2
8	Interior Roller Of Tension Bar	LA1-PL150-066	1
9	Exterior Roller Of Tension Bar	LA1-PL150-067	1
10	Shaft	LA1-PL150-087B	1
11	Washer	XNQC-M4	1
12	Spring Washer	2FWO-M4	1
13	Screw Nut	XAXR-M4	1

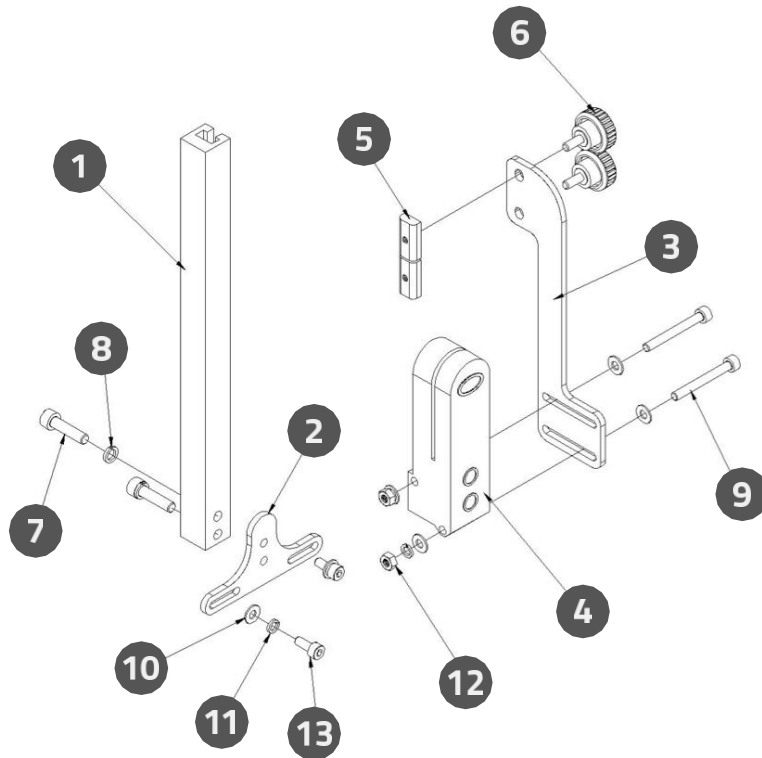
LABEL ROLLER ASSEMBLY



LABEL ROLLER ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Label Roller	LA1-ELF-013	1
2	Roller Shaft of Label Orientation	LA1-ELF-016B	1
3	Washer-M6	XNQC-M6	1
4	Spring Washer-M6	2FWO-M6	1
5	Socket Head Cap Screws	XNJW-M6100	1
6	Label Roller Sleeve (Large)	LA1-PL150-019	1
7	Plug	QVDG-HP16	1
8	Label Roller Sleeve	LA1-ELF-038B	1
9	Spring	LA1-PL150-052	1

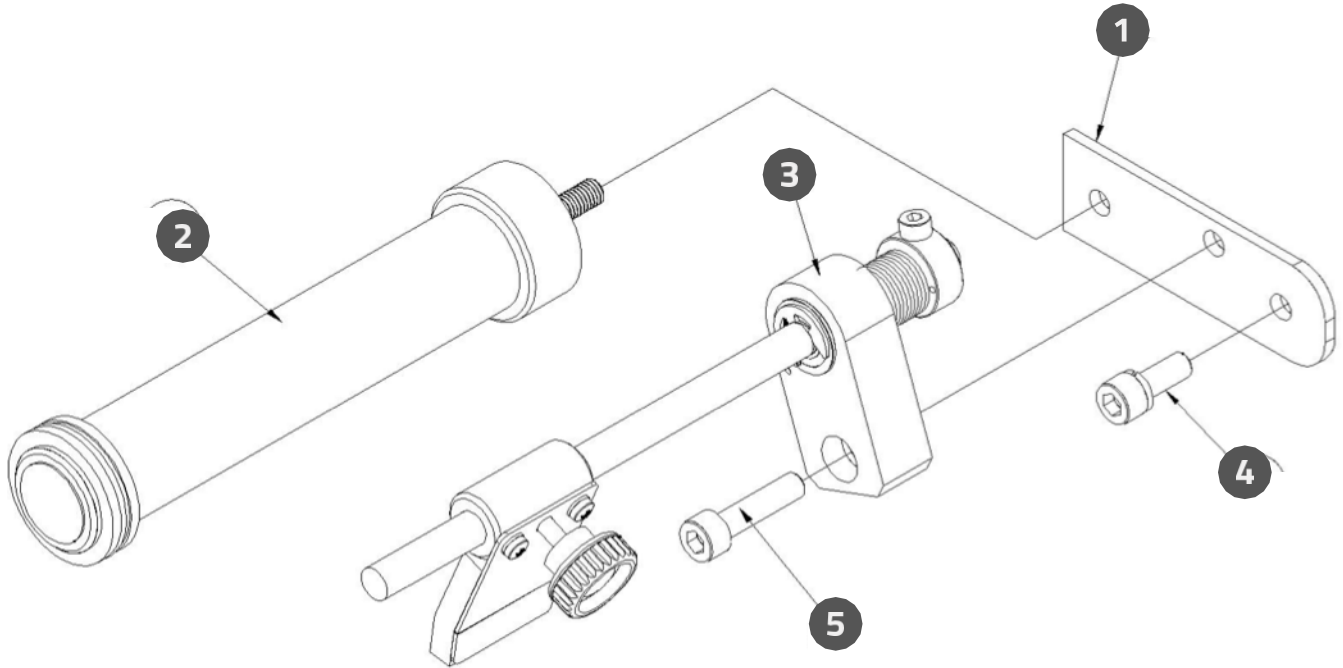
LABEL SENSOR BASE ASSEMBLY



LABEL SENSOR BASE ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Sensor Adjusted Bar	LA1-PL150-077D	1
2	Sensor Adjusted Pad	ELF1050501-020	1
3	Sensor Locking Pad	ELF1050501-021B	1
4	LERRC Label Sensor	2YE2-LERRCM8171	1
5	Square Nut	XAZV-NSM4	2
6	Stainless Steel Knob	51WR-802020M410	2
7	Socket Head Cap Screws	XNJW-M520	2
8	Spring Washer-M5	2FWO-M5	2
9	Socket Head Cap Screws	XNJW-M435	2
10	Washer-M4	XNQC-M4	6
11	Spring Washer-M4	2FWO-M4	4
12	Nut-M4	XAXR-M4	2
13	Socket Head Cap Screws	XNJW-M410	2

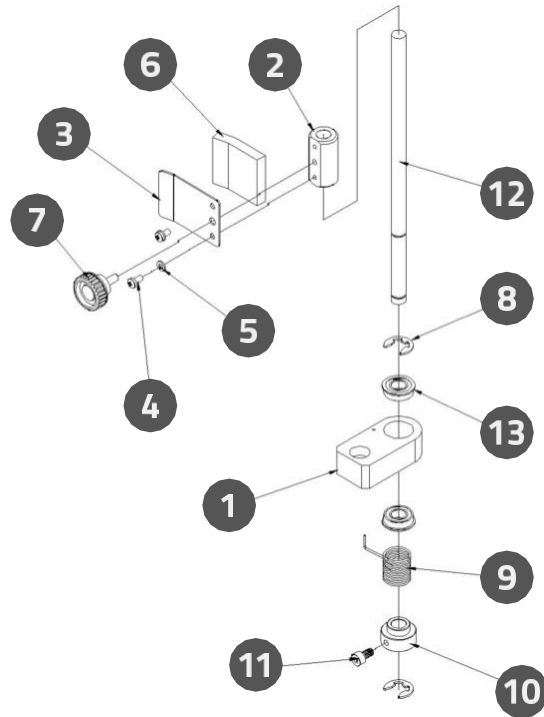
LABEL LOAD ASSEMBLY (WITHOUT PRINTER)



LABEL LOAD ASSEMBLY (WITHOUT PRINTER) PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Roller Pad	ELF1050501-019	1
2	Press Roller Assembly	See page 45	1
3	Paper Press Assembly	See page 44	1
4	Socket Head Cap Screws	XNJW-M616	1
5	Socket Head Cap Screws	XNJW-M625	1

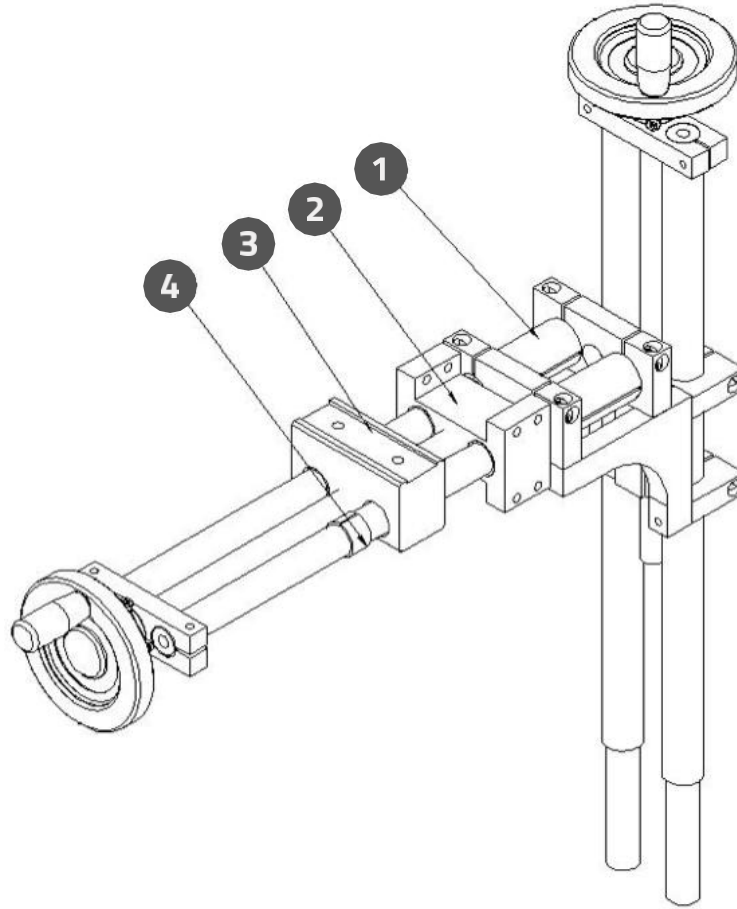
LABEL PRESS ASSEMBLY



LABEL PRESS ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Label Press Plate Bracket	LA1-ELF-044	1
2	Label Press Plate Base	LA1-PL150-046	1
3	Label Press Plate	LA1-PL150-037	1
4	Philips Head Screws	XNMW-M35	2
5	Spring Washer	2FWO-M3	2
6	Label Press Pad	LA1-PL150-089	1
7	Knob 802020M410	51WR-802020M410	1
8	E-Ring E8	DCEV-E8	2
9	Spring	LA1-PL150-101	1
10	Spring Base	LA1-PL150-017	1
11	Socket Head Cap Screws	XNJW-M48	1
12	Label Press Shaft	LA1-ELF-045B	1
13	Bearing	5TGH-F688ZZ	2

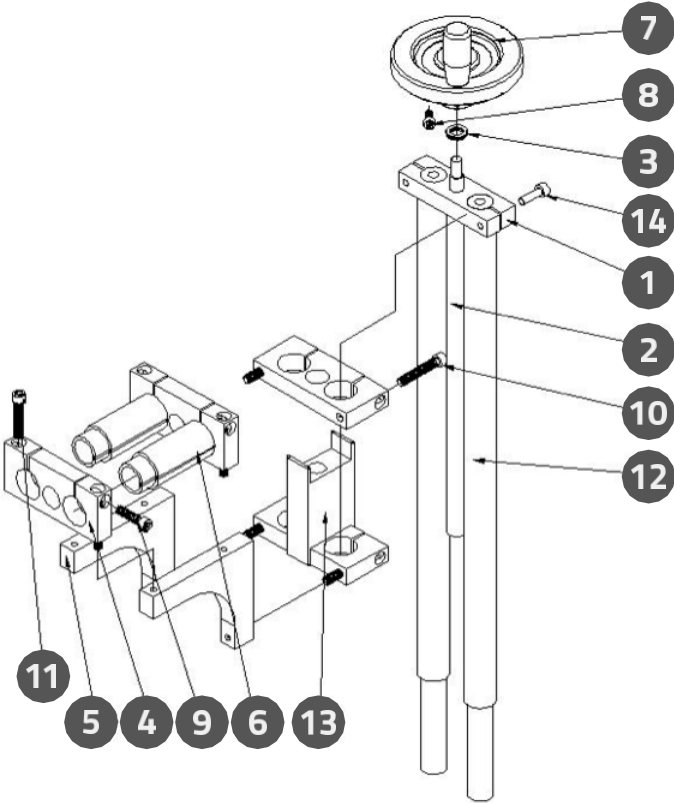
APPLICATOR ADJUSTMENT ASSEMBLY



APPLICATOR ADJUSTMENT ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Applicator Up/Down Adjustment Assembly	AA1-ELF	1
2	Applicator Front/Rear Adjustment Assembly	AA1-ELF	1
3	Labeling Applicator Adjustment Base	ELF1050501-024	1
4	Self Run Bearing	5TDU-LBF2015	4

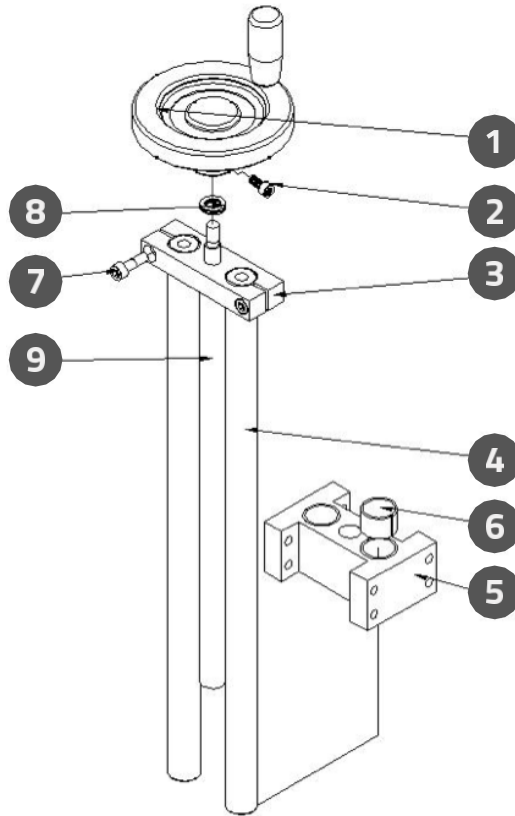
APPLICATOR UP/DOWN ADJUSTMENT ASSEMBLY



APPLICATOR UP/DOWN ADJUSTMENT ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Mounting Base Of Hand Wheel	AA1-ELF-014	1
2	Screw Rod M16300	AA1-ELF-007	1
3	Nylon Washer	2FN2-101610	6
4	Applicator Shaft Clamp	AA1-ELF-002B	4
5	Right Angle Seat	AA1-ELF-009	2
6	Transfer Sleeve Of Shaft	AA1-ELF-003	2
7	Hand Wheel	QRGX-KRA100CB65	1
8	Socket Head Cap Screws	XNJW-M512	2
9	Socket Head Cap Screws	XNJW-M625	8
10	Socket Head Cap Screws	XNJW-M640	4
11	Socket Head Cap Screws	XNJW-M635	4
12	Sliding Shaft	AA1-ELF-016	2
13	Screw Base	AA1-ELF-010	1
14	Socket Head Cap Screws	XNJW-M620	2

APPLICATOR FRONT/REAR ADJUSTMENT ASSEMBLY



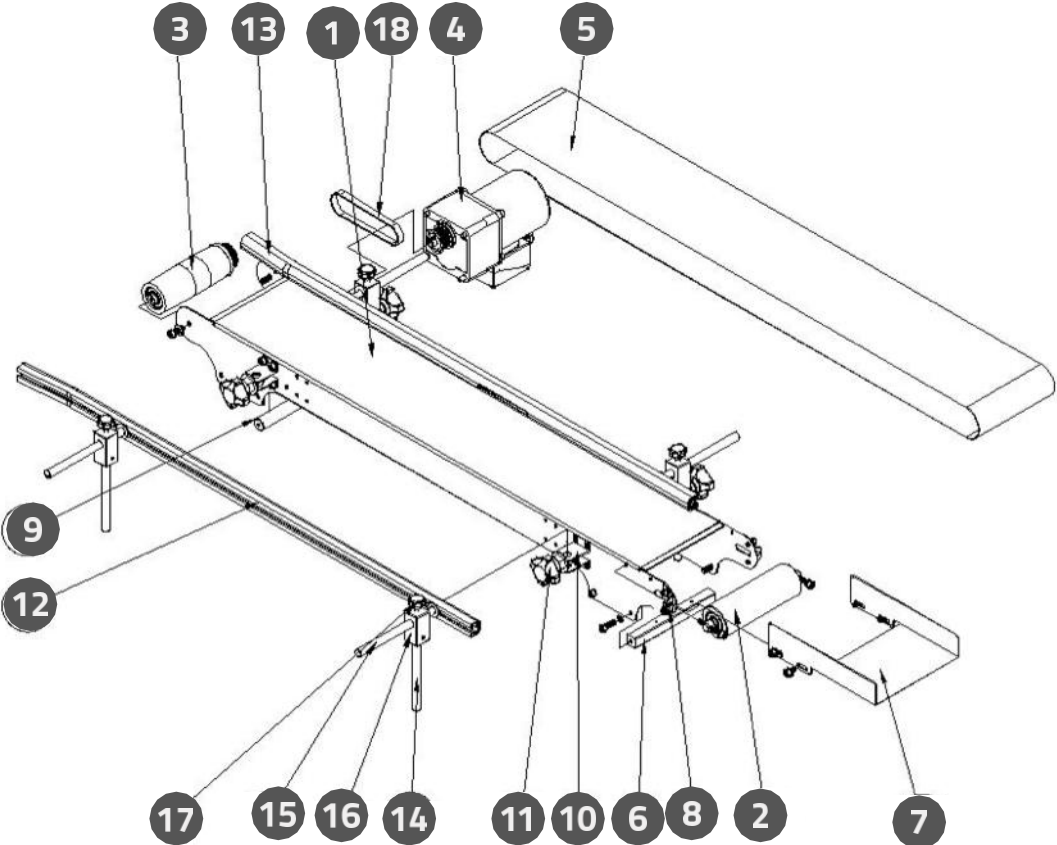
APPLICATOR ADJUSTMENT ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Hand Wheel	QRGX-KRA100CB65	1
2	Socket Head Cap Screws	XNJW-M512	2
3	Mounting Base Of Hand Wheel	AA1-ELF-014	1
4	Sliding Shaft D20400	AA1-ELF-004	2
5	Applicator Sliding Base	AA1-ELF-001B	1
6	Self Run Bearing	5TDU-LBF2015	4
7	Socket Head Cap Screws	XNJW-M620	2
8	Nylon Washer	2FN2-101610	6
9	Screw Rod	AA1-ELF-007	1



CONVEYOR

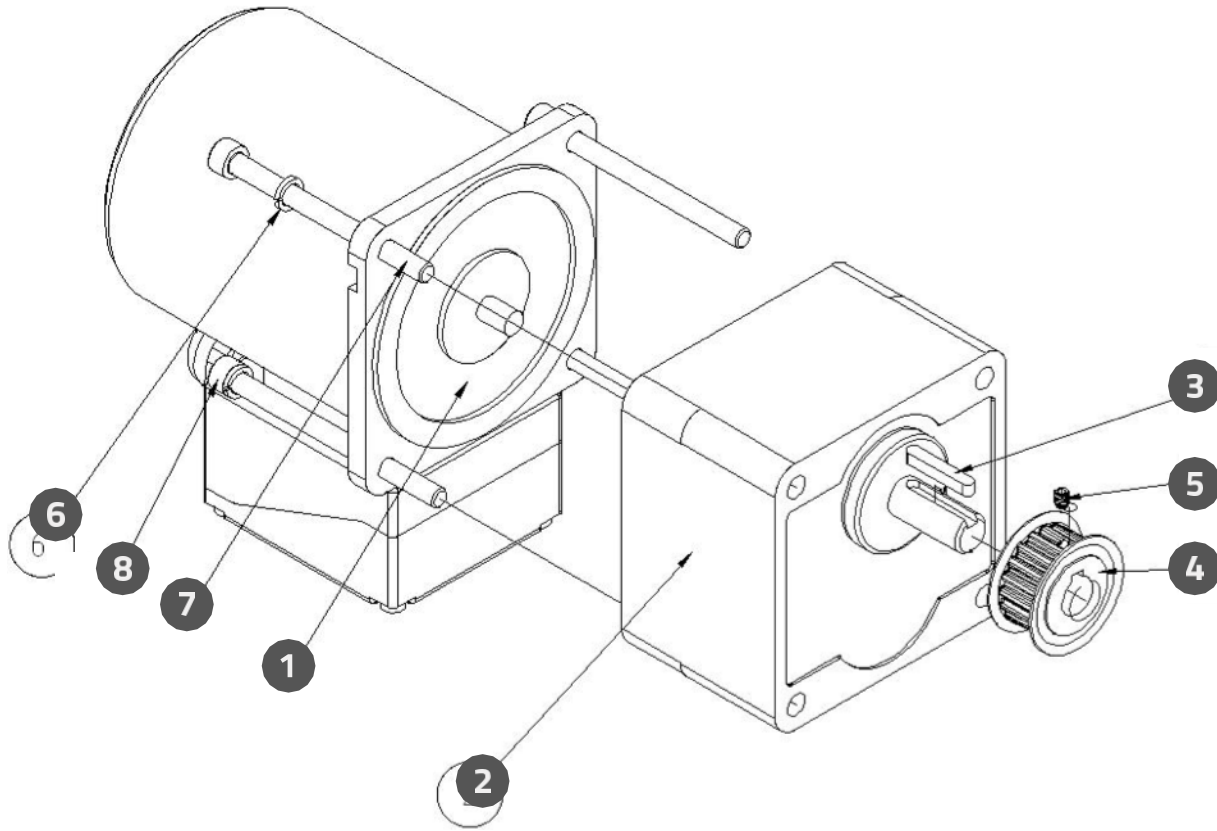
CONVEYOR ASSEMBLY



CONVEYOR ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Conveyor Plate	CV1-ELF-001C	1
2	Conveyor Driven Pulley Assembly	See page 54	1
3	Conveyor Driving Pulley Assembly	See page 53	1
4	Conveyor Motor Assembly	See page 52	1
5	Conveyor Belt 150W*2040L	T2EW-150W2040LA	1
6	Heater Box Fixed Rod	CV1-ELF-020	2
7	Bridging Plate	CV1-ELF-012	1
8	Tension Adjustment Block	CV1-ELF-008	4
9	Spacing Pillar	CV1-ELF-010	1
10	Guide Rail Fixing Base	CV1-ELF-011	1
11	Locking Screw Q339	51WR-Q339	8
12	Guide Rail - 1	GR1-ELF20-001	1
13	Guide Rail - 2	GR1-ELF20-002	4
14	Guide Rail Up & Down Adjusting Rod	51CX-UD-D12140	2
15	Guide Rail Front & Back Adjusting Rod	51CX-K-PIN-150	4
16	Guide Rail Front & Back Positioned Rod	GR1-PL501-009	4
17	Star Knob	51WR-606025M615	2
18	Timing Belt 120XL-050	T2Q2-120XL050	2

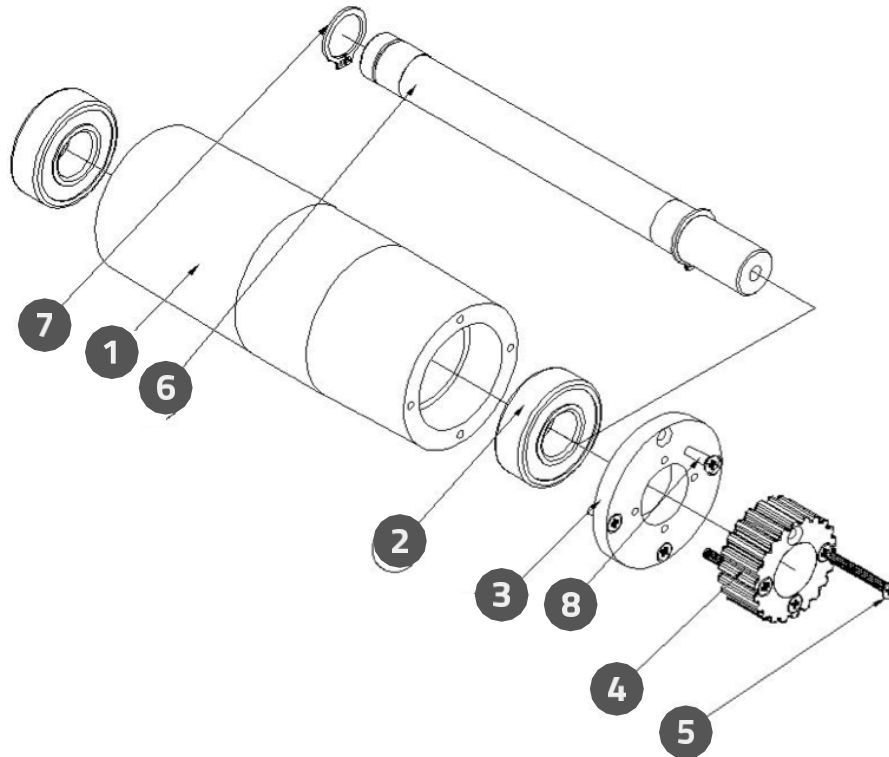
CONVEYOR MOTOR ASSEMBLY



CONVEYOR MOTOR ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	3 Phase Stepper Motor	A2EU-51K40GNST	1
2	Gear Reducer 5GN15K	A2RG-5GN15K-1	1
3	Double Head Round Keys	RGM-4425	1
4	Pulley	CV1-ELF-017	1
5	Socket Set Screw	XN5Z-M45	1
6	Spring Washer	2FWO-M6	4
7	Socket Head Cap Screws	XNJW-M675	2
8	Socket Head Cap Screws	XNJW-M685	2

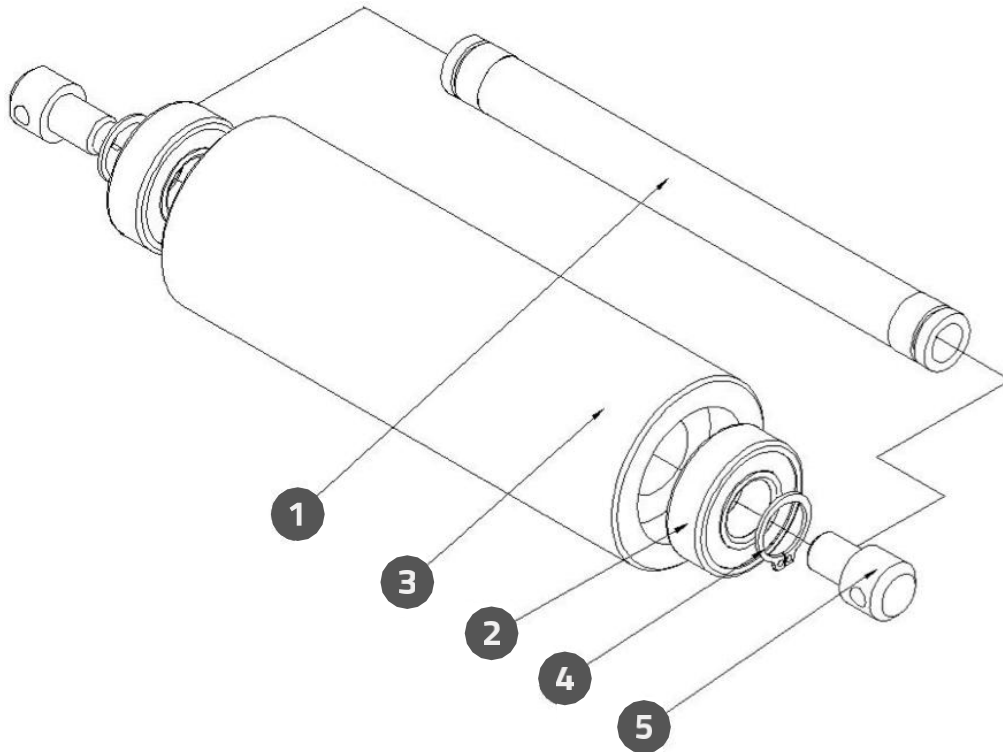
CONVEYOR DRIVING PULLEY ASSEMBLY



CONVEYOR DRIVING PULLEY ASSEMBLY PARTLIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Conveyor Driving Pulley	CV1-ELF-002B	1
2	Bearing 6202 ZZ	5TGH-6202ZZ	2
3	Conveyor Driving Pulley Cover	CV1-ELF-003B	1
4	Gear	CV1-ELF-004	1
5	Bolt	XNAW-M320	4
6	Conveyor Driving Pulley Shaft	CV1-ELF-005B	1
7	S-Ring S15	DCSV-S15	2
8	Bolt	XNAW-M315	4

CONVEYOR DRIVEN PULLEY ASSEMBLY



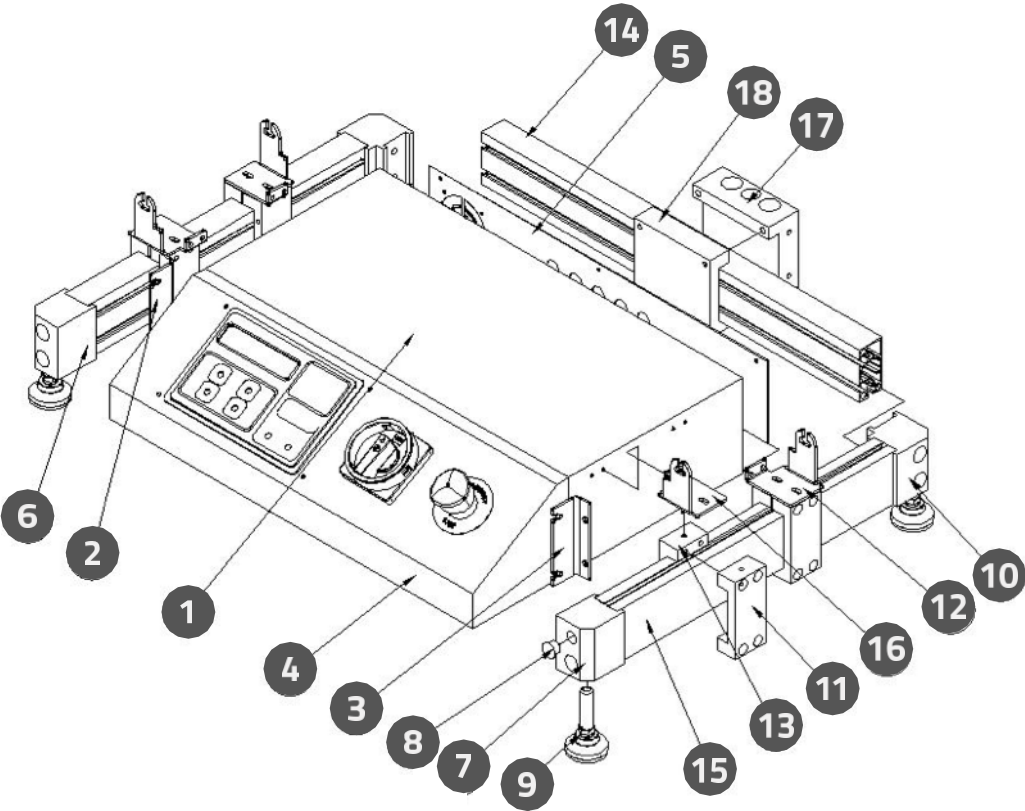
CONVEYOR DRIVEN PULLEY ASSEMBLY PARTLIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Conveyor Driven Pulley	CV1-ELF-007B	1
2	Bearing 6202ZZ	5TGH-6202ZZ	2
3	Conveyor Driven Pulley Shaft	CV1-ELF-006B	1
4	S-Ring	DCSV-S15	2
5	Pulley Adjustment Block	CV1-ELF-009	2



FOOT STAND

FOOT STAND ASSEMBLY



FOOT STAND ASSEMBLY PART LIST

NO.	DESCRIPTION	PARTS NO.	QTY.
1	Top Cover	CS1-ELF-006	1
2	Control Box Panel Fixed Plate (Left)	FT1-ELF-022	1
3	Control Box Panel Fixed Plate (Right)	FT1-ELF-021	1
4	Panel	CS1-ELF-002B	1
5	Base	CS1-ELF-001C	1
6	Stand Connector - Front Left	FT1-ELF-032	1
7	Stand Connector - Front Right	FT1-ELF-033	1
8	Plug	QVDG-HP13	12
9	Pad	51WR-NS401285	4
10	Stand Connector	FT1-ELF-014C	2
11	Conveyor Fixed Supporter (Outer)	FT1-ELF-017C	4
12	Conveyor Supporter - Left	FT1-ELF-024E	2
13	Conveyor Fixed Supporter (Inner)	FT1-ELF-018D	4
14	Back Stand Connector	FT1-ELF-034C	1
15	Aluminum Extrusion	FT1-ELF-035	2
16	Conveyor Supporter - Right	FT1-ELF-023E	2
17	Supporter Connecting Base	FT1-ELF-025C	1
18	Supporter Connecting Base (Inner)	FT1-ELF-026C	1

