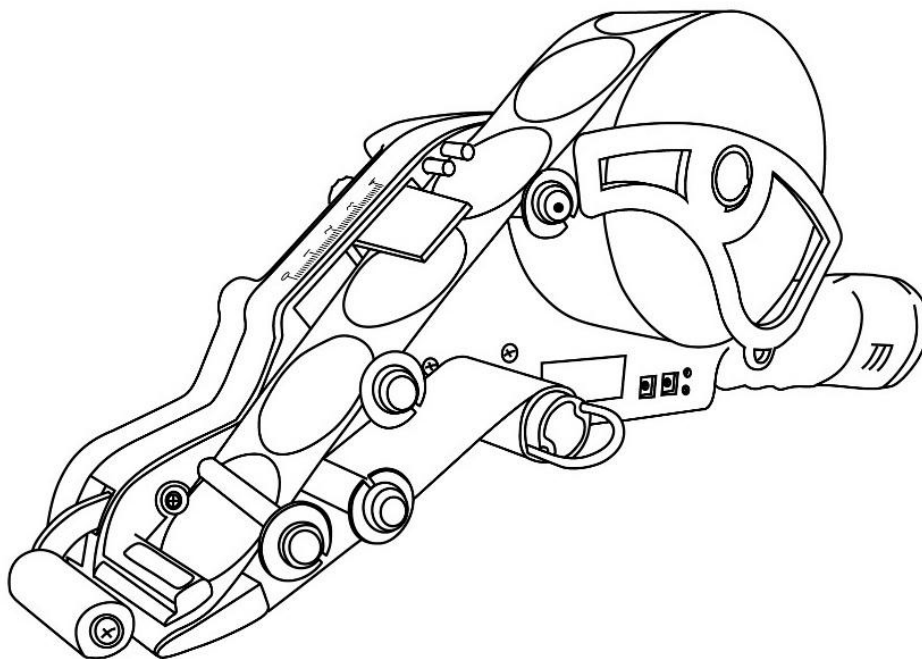




ELECTRONIC HANDHELD

LABEL APPLICATOR

Product Manual



MODELS USS-HLA01 / USS-HLA02 Series	POWER 12 V lithium battery	APPLICATION Roll labels for flat and curved surfaces
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Installation | Operation | Maintenance | Troubleshooting

Version 1.0 | May 2026

Before You Start

Read this manual before installing labels, charging batteries, or operating the applicator. Keep it available for operators and maintenance personnel.

IMPORTANT SAFETY INFORMATION

Use only the supplied charger and compatible U.S. SOLID replacement battery. Do not operate with a damaged charger, damaged battery, jammed label path, wet hands, or labels outside the media specifications in this manual.

Contents

- Product overview and component identification
- Package contents and technical specifications
- Label roll loading and threading
- Power, labeling operation, and output-length adjustment
- Battery indicator, charging, speed control, and sensor calibration
- Maintenance, troubleshooting, and support

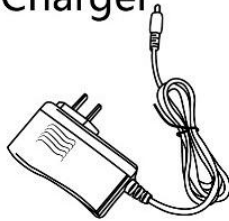
Operating Precautions

- Keep fingers, loose clothing, hair, and jewelry away from the feed roller, label exit, and moving liner path.
- Do not continue using the applicator after a long-short stall beep. Clear the cause of the stall and restart the machine before continuing.
- Avoid impact, drops, heavy compression, and rough handling. The housing is a precision molded plastic assembly.
- Use labels that meet the width, height, roll diameter, roll weight, and material requirements in the specifications table.
- Pictures in this manual are for reference. Actual appearance may vary by production batch or configured model.

Package Contents

Accessories Display

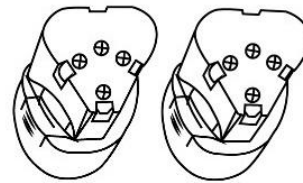
Charger



U shape Fixing Loop



2 batteries



Standard accessories: charger, U-shaped fixing loop, and two lithium batteries.

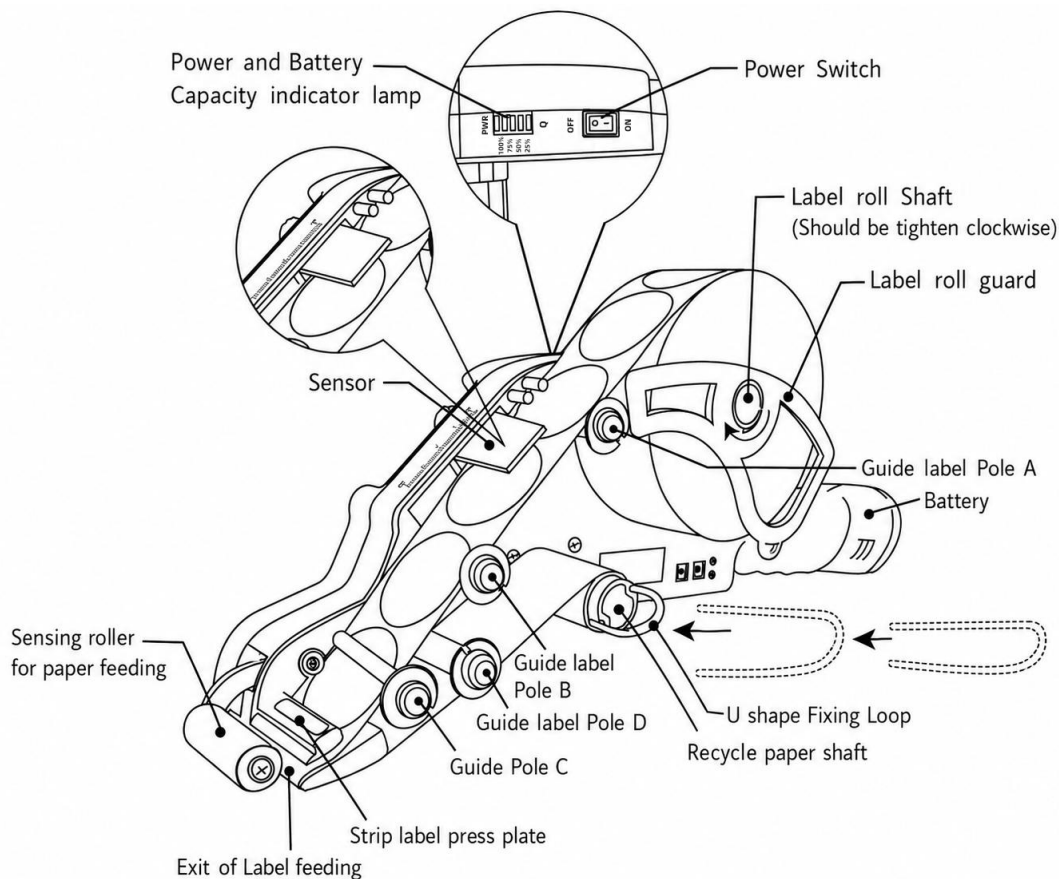
Product Overview

The U.S. SOLID USS-HLA01 / USS-HLA02 Series is a cordless electronic handheld label applicator designed for fast roll-label placement on cartons, bags, containers, and other production or packaging surfaces. The applicator uses a sensor-controlled feed path to dispense each label and wind the backing liner as the operator moves across the target surface.

Key Features

- Cordless handheld operation with a removable 12 V lithium battery.
- Sensor-controlled label dispensing for consistent label output.
- Adjustable label position, output length, application speed, and sensitivity.
- Two model widths: USS-HLA01 for narrower labels and USS-HLA02 for wider labels.

Component Identification



Main mechanical parts and control locations.

Component	Purpose
Label roll shaft / guard	Holds the label roll in place. Tighten the guard clockwise after loading.
Sensor and sensing roller	Detects label gaps and triggers label dispensing as the applicator moves.
Guide label poles A-D	Guide the label web through the machine path and maintain liner tension.

Component	Purpose
Recycle paper shaft	Winds the liner/backing paper after the labels are dispensed.
U-shaped fixing loop	Secures the liner around the recycle paper shaft.
Power switch and battery	Turns the applicator on/off and supplies portable power.
Speed and sensitivity controls	Fine-tune dispensing speed and label-gap detection.

Technical Specifications

Specification	USS-HLA01 Series	USS-HLA02 Series
Product name	Electronic Handheld Label Applicator	
Dimensions	L400 x W90 x H125 mm	L400 x W125 x H125 mm
Net weight	0.73 kg / 1.61 lb	0.78 kg / 1.72 lb
Gross weight	1.70 kg / 3.75 lb	1.75 kg / 3.86 lb
Supported label width	15-40 mm	15-80 mm
Supported label height	15-60 mm	
Maximum label roll weight	2 kg / 4.41 lb	
Maximum roll outer diameter	130 mm; approx. 60 m roll length; 25 mm inner core diameter	
Battery	Lithium battery, 3500 mAh, 12 V	
Charger	Input AC 100-240 V, 50/60 Hz; output DC 13 V, 1.3 A	
Compatible label types	Coated labels, synthetic labels, thermal labels, barcode labels, security labels, fruit labels, logistics labels, and similar roll labels	

MEDIA COMPATIBILITY NOTE

Use labels that meet all dimensional requirements. Film labels, synthetic materials, very thick stock, adhesive buildup, or rolls outside specification may cause missed detection, misfeed, or stall warnings.

Label Roll Installation

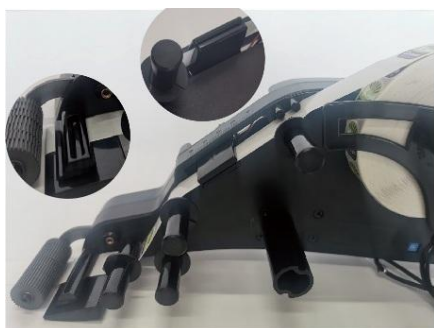
Turn the applicator off before loading a label roll. Confirm that the label web is not torn and that the liner feeds smoothly before powering on the machine.



Step 1 - Load the label roll

Place the label roll on the label roll shaft. Install the label roll guard, then rotate the guard clockwise until the roll is held securely without binding.

Check: The label roll turns freely and does not wobble.



Step 2 - Thread through the sensor

Guide the label web through the machine path as shown. The liner and label gap must pass through the sensor gap so the applicator can detect each label.

Check: The label gap is centered in the sensor path.



Step 3 - Secure the liner

Wrap the backing liner around the recycle paper shaft one full turn. Use the U-shaped fixing loop to hold the liner on the shaft.

Check: The liner is tight enough to wind evenly but not stretched.

Power On and Labeling Operation



Step 4 - Install the battery and power on

Slide the charged battery into the battery compartment until it seats firmly. Move the power switch to ON.

Check: The power indicator is lit and the battery indicator shows remaining capacity.



Step 5 - Apply the label

Place the sensing roller on the target surface. Keep the roller flat, press lightly, and move the applicator smoothly across the surface until the label is fully applied.

Check: Avoid stopping mid-label or lifting the roller while dispensing.



Step 6 - Adjust output position if needed

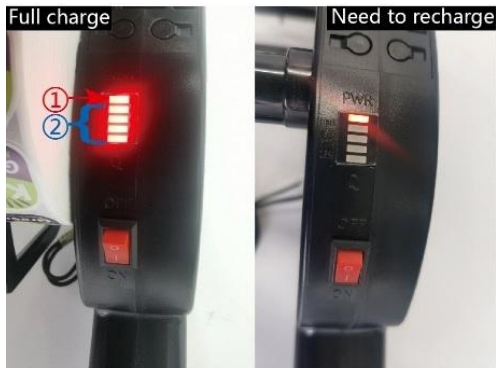
Loosen the movable sensor knob and slide the sensor forward or backward to adjust the label output length and stop position. Tighten the knob after adjustment.

Check: Run a test label after each adjustment.

APPLICATION TIP

Best results come from steady motion, light pressure, and a clean target surface. If labels skew or wrinkle, slow the motion, verify roll alignment, and check that the liner is winding evenly.

Battery, Charging, and Indicators



Battery indicator

The first grid is the power indicator. The second through fifth grids show remaining battery capacity. If the remaining-capacity grids are off and the applicator gives warning tones, replace or recharge the battery.



Charging indicator

Connect the supplied charger to a compatible AC outlet and the battery/charging port. Red means charging. Green means charging is complete.

BATTERY WARNING

Do not keep operating when the battery is low. Continued low-voltage operation may reduce machine life. Use only the original charger or a U.S. SOLID-approved replacement charger.

Speed and Sensor Calibration



Speed knob, sensitivity knob, calibration button, and L1/L2 sensitivity indicators.

Speed Adjustment

Turn the speed regulation knob clockwise to increase dispensing speed. Turn it counterclockwise to decrease speed. Use a slower speed for narrow, small, or difficult labels.

Label-Gap Calibration

1. Confirm the label web is threaded through the sensor gap and the liner is secured on the recycle paper shaft.
2. Press and hold the calibration button for approximately two seconds to start calibration.
3. If L1 is on, turn the sensitivity knob counterclockwise and calibrate again.
4. If L2 is on, turn the sensitivity knob in the opposite direction and calibrate again.
5. Calibration is successful when both L1 and L2 are off after calibration.

CONTROL KNOB RANGE

The sensitivity knob has an approximate 270-degree adjustment range. Turn gently. Forcing the knob beyond its range can damage the control.

Maintenance

Routine Care

- Turn the power switch off and remove the battery before cleaning or clearing a jam.
- Keep the sensor window, sensing roller, feed path, and label exit free of dust, adhesive, and label scraps.
- Wipe exterior surfaces with a soft, dry or slightly damp lint-free cloth. Do not use solvents, abrasive cleaners, or high-pressure air.
- Remove label adhesive buildup promptly; adhesive residue can cause missed detection, double feed, or liner slippage.
- Store batteries partially charged in a cool, dry place when the applicator will not be used for an extended period.

Troubleshooting

Symptom	Likely Cause	Corrective Action
No power	Battery depleted, battery not seated, or switch is off.	Install a charged battery, confirm it seats fully, and move the power switch to ON.
Several labels eject at first use	Sensor has not recognized the label gap or label web is not in the sensor gap.	Re-thread the label through the sensor gap and perform label-gap calibration.
Short or long label output	Movable sensor is positioned incorrectly or speed is too high.	Loosen the sensor knob, adjust the sensor forward/backward, tighten, then test at a lower speed.

Symptom	Likely Cause	Corrective Action
Stall beep during use	Label path jam, liner winding problem, roll outside specification, or low battery.	Stop use, clear the jam, check liner winding and roll size, then restart with sufficient battery power.
Poor label alignment	Roll not centered, uneven pressure, dirty roller, or target surface contamination.	Realign the roll, clean the roller/surface, and apply with steady motion and light pressure.
Charging light does not behave normally	Wrong charger, loose connection, damaged charger, or battery fault.	Use the supplied charger, confirm connections, and replace damaged parts before further use.

Service and Support

For product support, replacement parts, and service information, contact U.S. SOLID or the authorized distributor from whom the product was purchased.

Address	4560 Johnston Parkway, Cleveland, Ohio 44128
Email	service@ussolid.com

Specifications and accessories are subject to change without notice.