



SST15+

Electric Pallet Stacker

Operation & Maintenance Manual

Rated Capacity: 1,500 kg (3,300 lbs)

24V Battery System

Document Number: SST15-OM-2026-R1

Revision: 1.0

Date: March 2026

Important Safety and Legal Information

SST15+ Safety and Operation Statement

This manual provides essential safety, operating, and maintenance information for the Sumachay SST15+ series electric pallet stackers. All operators must read and understand these instructions before using this equipment.

Warning: Improper operation, maintenance, or modification of the SST15+ may result in serious injury or death. Only qualified personnel should operate this equipment.

Provider: Sumachay Lifts

Document Number: SST15-OM-2026-R1

Equipment: SST15+ Series Electric Pallet Stackers

Effective Date: March 2026

All information in this manual is subject to change without notice. Sumachay Lifts reserves the right to modify equipment specifications and operating procedures at any time.

For the latest version of this manual and additional safety information, contact Sumachay Lifts or visit our official website.

Compliance: The SST15+ series complies with applicable safety standards including EN 12053, ISO 4871, and other regulatory requirements for electric pallet stackers.

Table of Contents

1. Safety Warnings & Requirements
2. Product Overview
3. Technical Specifications
4. Controls & Instruments
5. Operating Instructions
6. Transport & Commissioning
7. Maintenance Schedule
8. Troubleshooting & Fault Codes
9. Battery Guide
10. Warranty & Support

1. Safety Warnings & Requirements

1.1 General Safety

The SST15+ series electric pallet stacker is a sophisticated piece of material handling equipment. Before operating this equipment, all users must:

- Read and understand all instructions in this manual
- Receive proper training and certification before operation
- Inspect the equipment before each use
- Wear appropriate personal protective equipment (PPE)
- Follow all facility safety rules and local regulations
- Report any equipment damage or malfunction immediately
- Never exceed the rated capacity of 1,500 kg (3,300 lbs)
- Maintain clear visibility during all operations

1.2 Operating Environment

The SST15+ series is designed for operation within the following environmental parameters:

Parameter	Specification
Ambient Temperature	0°C to +45°C (32°F to +113°F)
Maximum Altitude	2,000 m (6,562 ft)
Noise Level	<75 dB(A) per EN 12053 / ISO 4871
Floor Type	Hard, flat surfaces without sharp objects
Humidity	10% to 90% (non-condensing)
Gradeability (laden)	5%
Gradeability (unladen)	10%

1.3 Hazard Warnings

- Crushing Hazard:** Keep hands, feet, and clothing clear of the load and forks during operation
- Mast Hazard:** The mast can extend to heights of 2,000-3,500 mm. Ensure overhead clearance and stability
- Pinching Hazard:** Do not attempt to adjust or repair the equipment while it is operating
- Electrical Hazard:** The SST15+ contains a 24V battery system. Do not open the battery compartment
- Fire/Explosion Hazard:** Never charge the battery in the presence of flammable materials or in wet conditions

Overload Hazard: Never exceed the rated capacity of 1,500 kg (3,300 lbs) shown on the equipment data plate

Tipping Hazard: Uneven loads or operation on slopes may cause the equipment to tip. Keep the load centered

Electromagnetic Brake: The electromagnetic service brake requires power to function. Never rely on mechanical brakes alone

2. Product Overview

The Sumachay SST15+ series is a family of pedestrian-controlled electric pallet stackers designed for efficient material handling in warehouses, distribution centers, retail environments, and manufacturing facilities. The SST15+ combines advanced 24V battery technology with a telescoping mast and straddle leg design to provide operators with a safe, productive, and user-friendly equipment solution for lifting loads up to 3,500 mm.

Key Features:

The SST15+ series offers the following features to enhance safety and productivity:

- 24V battery-powered drive system with two battery options: GEL (71Ah/89Ah) or Lithium LiFePO4 (60Ah/100Ah)

- Adjustable straddle legs with three width settings for various pallet sizes

- Telescoping mast with adjustable lift heights: 2,000 / 2,500 / 3,000 / 3,300 / 3,500 mm

- 0.75 kW drive motor and 2.5 kW lift motor for efficient operation

- Electromagnetic service brake for enhanced safety during loading/unloading

- LCD display showing battery status, error codes, and operational data

- Turtle speed mode for reduced-speed operation in confined areas

- Intuitive handle control box with emergency stop button

- Adjustable fork width from 200 mm to 795 mm

- Polyethylene wheels for safe indoor warehouse operation

2.1 Correct Use

The SST15+ electric pallet stacker is designed exclusively for the lifting and transport of loads on pallets or skids. The equipment is suitable for operation in:

- Indoor warehouses and distribution centers

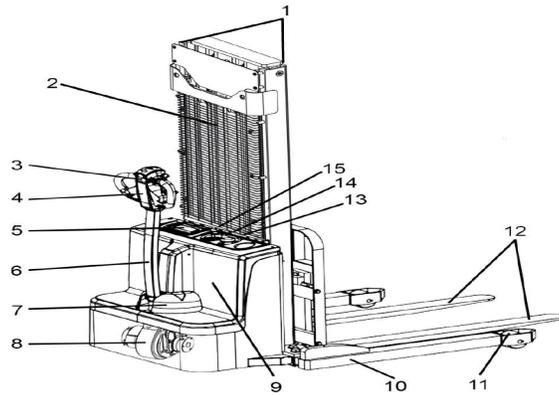
- Manufacturing and production facilities

- Retail stockrooms and backrooms

- Any enclosed facility with hard, level flooring

2.2 Component Diagram

2.2 Main parts introduction



Item No.	Type	Parts name
1	○	Mast
2	●	Cylinder assy.
3	●	Accelerator assy.
4	●	Handle control box
5	○	Charging plug
6	●	Handle tube
7	●	Bottom cover
8	●	Drive unit assy.
9	●	Upper cover
10	●	Support leg
11	●	Load wheel
12	●	Forks
13	●	Emergency stop switch
14	●	Charging LED
15	●	Key switch with keys
	■	Intelligent control keys

● = Standard ■ = Optional ○ = Different specifications available for selection

3. Technical Specifications

The following table provides comprehensive technical specifications for the SST15+ series across five mast height configurations: 2000mm, 2500mm, 3000mm, 3300mm, and 3500mm lift heights. Weight values are shown for service weights without battery, and with three battery options: 60Ah Lithium, 71Ah GEL, and 89Ah GEL.

Parameter	Unit	2000mm	2500mm	3000mm	3300mm	3500mm
Rated Capacity	lb (kg)	3300 (1500)	3300 (1500)	3300 (1500)	3300 (1500)	3300 (1500)
Load Center	in (mm)	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)
Overall Length	in (mm)	67.1 (1705)	67.1 (1705)	67.1 (1705)	67.1 (1705)	67.1 (1705)
Fork Length	in (mm) #2 / 45.3 / 48 (1070/1150/1220)	—	—	—	—	—
Lowered Mast Height	in (mm)	58.3 (1480)	68.1 (1730)	78.0 (1980)	83.9 (2130)	87.8 (2230)
Lift Height	in (mm)	78.7 (2000)	98.4 (2500)	118.0 (3000)	130.1 (3300)	137.8 (3500)
Service Weight (no battery)	lb/kg	1283 / 582	1334 / 605	1400 / 635	1470 / 667	1550 / 703
Service Weight (60Ah Li)	lb/kg	1314 / 596	1365 / 619	1431 / 649	1501 / 681	1581 / 717
Service Weight (71Ah GEL)	lb/kg	1385 / 628	1435 / 651	1501 / 681	1572 / 713	1651 / 749
Service Weight (89Ah GEL)	lb/kg	1396 / 633	1446 / 656	1512 / 686	1583 / 718	1662 / 754
Travel Speed (laden)	mph (km/h)	2.5 (4.0)	2.5 (4.0)	2.5 (4.0)	2.5 (4.0)	2.5 (4.0)
Travel Speed (unladen)	mph (km/h)	2.8 (4.5)	2.8 (4.5)	2.8 (4.5)	2.8 (4.5)	2.8 (4.5)
Turning Radius	in (mm)	57.3 (1435)	57.3 (1435)	57.3 (1435)	57.3 (1435)	57.3 (1435)
Drive Motor	kW	0.75 DC	0.75 DC	0.75 DC	0.75 DC	0.75 DC
Lift Motor	kW	2.5 DC	2.5 DC	2.5 DC	2.5 DC	2.5 DC
Battery Voltage	V	24	24	24	24	24
Battery Options		GEL 71/89Ah or Li 60/100Ah	—	—	—	—
Service Brake		Electromagnetic	—	—	—	—
Noise Level	dB(A)	<75	<75	<75	<75	<75

4. Controls & Instruments

The SST15+ series features an intuitive handle control box with clearly labeled buttons, an LCD display, and an emergency stop switch. This section describes each control function and how to use them safely and effectively.

4.1 Main Controls

Key Switch: Activates and deactivates the control circuit. Removing the switch key prevents accidental startup.

Emergency Stop Button: Immediately interrupts all electrical functions and forces the stacker to brake. This button must be accessible at all times during operation.

Travel Switch: Controls the direction (forward/reverse) and speed of stacker travel.

Lifting/Lowering Button: Operates the hydraulic lift pump to raise or lower the load. Press and hold to lift; release to stop.

Turtle Speed Switch: Activates reduced-speed mode for precision positioning in confined areas. Press once to engage; press again to return to normal mode.

Upright Walking Button: When turtle speed is engaged, allows the handle to be positioned at various angles. In normal mode, the handle can only be pressed down to the driving position.

Emergency Reverse Button: When activated, the stacker travels in reverse for approximately 3 seconds and activates the parking brake for safety.

Horn Button: Sounds a warning horn to alert personnel in the area.

Charging LED: Indicates the charging status with different light patterns (flashing red = charging, solid green = fully charged, flashing yellow = charger fault, solid yellow = battery fault).

4.2 LCD Display

The LCD display on the SST15+ series shows the following information:

- Battery charge level (percentage)
- Operating status and error codes
- Speed mode indicator (normal or turtle speed)
- Diagnostic codes (if any errors occur)

Always monitor the battery level during operation. When the battery reaches 10%, prepare to recharge or return to the charging station.

4.3 Controls Diagram

No.	Parts name	Type	Function
1	Handle tube	●	Control steering and braking of the stacker.
2	Emergency stop switch	●	Interrupt circuit, stop all electrical functions. The stacker is forced to brake.
3	Charging LED	●	Display the operating status of the built-in charger.
		●	Flashing red light: charging in progress. Green light always on: charging completed or waiting for battery. Yellow light always on light: battery malfunction. Flashing yellow light: charger malfunction.
4	Key switch assy. (with keys)	●	Activate and deactivate the control current. Removing the switch key lock ensures that the stacker will not start accidentally.
5	Charging plug (Built-in-charger)	●	Charge the battery.
6	Upright walking button (slow switch)	●	Press and hold the turtle speed switch, and the vehicle will move upright. The handle can walk at any angle. Do not press the turtle speed switch, the vehicle is in normal mode, and the handle can only be pressed down to the driving range before walking.
	Turtle speed switch button.	●	Press the turtle speed switch once to enter slow mode. Press the turtle speed switch again to return to normal mode.
7	Display screen	●	1. Display the battery level status; 2. Display the error code; 3. Display the stacker operating status.
8	Emergency reverse button	●	When the safety protection function is triggered by pressing this button, the stacker immediately travels in the direction of the fork for about 3 seconds, and the parking brake is activated. The stacker can only be started again when the driving switch is restored to its initial position.
9	Travel switch	●	Control the direction and speed of stacker travel.
10	Lifting/lowering button	●	Lifting load items.
11	Horn button	●	When horn button is pressed, the horn will ring, as a warning.
12	Remote Control Key	○	With Remote control device for lifting and lowering, maximum driving speed setting, and horn function.

● = Standard ○ = Optional ○ = Different specifications available for selection

2.1 Display



Charging status indicator[4]

Display the operating status of the built-in charger:

- Flashing red light: charging in progress.
- Green light always on: charging completed
- Yellow light always on light: battery malfunction
- Flashing yellow light: charger malfunction.

2.2 Control



Handle control

The handle control box is used for steering and braking control.

When the handle control box is turned left or right, the stacker can be steered in the corresponding direction. The maximum rotation angle of the handle control box is about 175°.



5. Operating Instructions

5.1 Pre-Operation Inspection

Before operating the SST15+ series, perform the following inspection to ensure the equipment is in safe working condition:

- Check for visible damage to the frame, mast, forks, or hydraulic cylinders
- Inspect wheels for proper condition and damage
- Verify that all controls operate smoothly without sticking
- Check that the battery charge level is adequate (minimum 20% recommended)
- Ensure the parking brake holds the load when applied
- Listen for unusual noises or vibrations during operation
- Confirm that all warning labels are present and legible
- Test the emergency stop function
- Verify straddle leg position is appropriate for your pallet
- Check that the mast extends and retracts smoothly

5.2 Starting the Equipment

To start the SST15+ series electric pallet stacker:

1. Ensure the parking brake is engaged and the equipment is on level ground
2. Insert the key into the key switch and turn to the ON position
3. The LCD display should illuminate and show battery charge level
4. Verify that the battery charge indicator shows adequate power (minimum 20%)
5. Check that all controls respond to input
6. Release the parking brake before attempting to move the equipment
7. Ensure the area is clear of obstacles and personnel

5.3 Traveling and Steering

To operate the SST15+ series during normal movement:

1. Hold the handle firmly with both hands
2. Press the travel switch forward to move ahead; press reverse to move backward
3. Release the button to stop movement
4. Accelerate gradually to avoid sudden jerking motions
5. Navigate around obstacles at reduced speed
6. When entering confined spaces or areas requiring precision, engage turtle speed mode
7. Monitor the battery level on the LCD display; return to charging when needed

The SST15+ series operates at a maximum speed of 2.8 mph (4.5 km/h) when unladen and 2.5 mph (4.0 km/h) when laden with the rated capacity. When turtle speed is engaged, the maximum speed reduces significantly, providing enhanced control and safety in confined spaces.

5.4 Lifting and Lowering

To lift a load with the SST15+ series:

1. Position the forks directly under the pallet, ensuring the load is centered at the 24-inch (600 mm) load center
2. Insert the forks fully under the pallet before lifting
3. Press and hold the lift button to raise the load smoothly
4. Stop lifting when the load reaches the desired height
5. Ensure the load is stable before moving the equipment

To lower a load with the SST15+ series:

1. Position the equipment over the intended set-down location
2. Press and hold the lower button to descend smoothly
3. Lower the load until the forks are fully resting on the floor or support
4. Release the lower button once the forks are clear of the pallet
5. Back the equipment away from the load carefully

5.5 Fork and Leg Adjustment

Fork Width Adjustment: The forks can be adjusted from 200 mm (7.9 in) to 795 mm (31.3 in) to accommodate different pallet sizes. Loosen the adjustment bolts, reposition the forks to the desired width, and retighten securely.

Straddle Leg Adjustment: The SST15+ features three adjustable straddle leg widths for different pallet configurations. The rear tread can be adjusted to 42.1 in (38.2 in), 47.6 in (43.7 in), or 53.1 in (49.2 in). This adjustment requires loosening the leg fasteners and repositioning the legs. Always tighten all fasteners securely before operation.

Mast Height Selection: Ensure you have selected the correct mast height configuration for your operation before use. The SST15+ is available in five mast heights: 2000 mm, 2500 mm, 3000 mm, 3300 mm, or 3500 mm.

5.6 Stopping and Parking

To stop the SST15+ series and park it safely:

1. Release all control buttons and allow the equipment to come to a complete stop
2. Position the equipment on level, stable ground
3. Lower the forks to the ground completely
4. Engage the parking brake using the electromagnetic brake
5. Turn the key switch to the OFF position
6. Remove the key from the key switch
7. Never leave the equipment unattended with the power on or the load elevated

6. Transport & Commissioning

6.1 Crane Lifting

The SST15+ electric pallet stacker can be lifted using a crane or hoist equipped with appropriate rigging equipment. The stacker has two designated attachment points for lifting located on the frame. These attachment points are designed to safely support the full weight of the stacker.

Crane Lifting Procedure:

1. Locate the crane lifting attachment points on the stacker frame
2. Use appropriate slings or chains with minimum rated capacity equal to 150% of the stacker weight
3. Attach the rigging equipment securely to both lifting points
4. Remove the battery from the stacker before lifting
5. Ensure the stacker is balanced and stable before lifting
6. Lift slowly and smoothly without jerking
7. Do not lift the stacker with the forks extended or the mast raised
8. Never lift the stacker by the mast or handle assembly

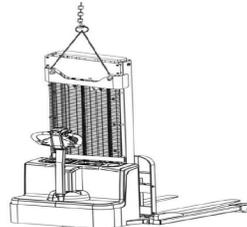
C Transport and Commissioning

1 Lifting by crane

STOP The stacker is designed for short-distance lifting, lowering and transporting load units, not suitable for long-distance travel. If needed, the stacker must be transported by using lifting device or platform to place on stacker or trailer.

- Only use lifting gear with sufficient capacity (for stacker weight see stacker nameplate).
- The attachment points are provided for lifting the stacker with crane lifting gear.
- Park the stacker securely (See Chapter E).
- When hoisting or laying down, it should be stable and slow to avoid collision or accident.

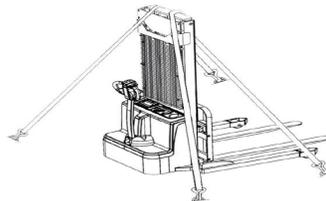
- ➔ Park the stacker securely.
- Fasten the harness to the lifting points so that it cannot slip! Crane slings should be fastened in such a way that they do not come into contact with any parts of the stacker when it is being raised.
- Secure the lifting slings to the strap point, and prevent them from slipping. Crane slings should be fastened in such a way that they do not come into contact with any attachments when lifting.
- Load the stacker and park it securely at its destination.



2 Securing the stacker during transport

- ➔ Correctly fix the stacker to avoid move when using stacker or trailer.
- Park the stacker securely.
- Sling the tensioning belt around the stacker and attach it to the fastening rings of the transporting stacker.
- Use wedges to prevent the stacker from moving.
- Tighten the tensioning belt with the tensioner.

- ⚠ • The stacker or trailer must have fastening rings.
- Use wedges to prevent the stacker.
- Only use tension belt or fastening belt of good nominal strength.



6.2 Transport and Securing

When transporting the SST15+ stacker, proper securing procedures must be followed to prevent damage and ensure safety during transit.

Transport Procedure:

1. Ensure the stacker is in a lowered position with the mast fully retracted
2. Remove the battery and store separately from the stacker
3. Apply the parking brake to lock the stacker wheels
4. Use transport equipment rated for the total weight (equipment plus any batteries)
5. Secure the stacker with straps or chains at four points minimum
6. Place protective covers over the forks to prevent damage
7. Do not transport the stacker with the forks extended or the mast raised
8. Ensure the vehicle is operated smoothly without sudden acceleration or braking

3 Using for the first time



Operate the stacker only with battery current. Rectified AC current will damage the electronic components. The battery leads (tow cable) must be less than 6m in length.



It is forbidden to raise loads if the stacker is operated via a tow lead with an external battery.

To prepare the stacker after delivery or after transport, proceed as follows:

- Make sure the stacker's equipment is complete and in a satisfactory condition.
- Install battery (where required). Do not damage battery cables (see Chapter D).



Set the characteristic curve (charging curve) on the charger (see Chapter D).

- Charge the battery (see Chapter D).
- If necessary, adjust the combination instrument to match the battery type (see Chapter D).
- Commission the stacker in accordance with instructions (see Chapter E).



When the stacker is parked, the surface of the wheels will flatten. The flattening will disappear after a short period of operation.

4 Running-in of new stacker



- The stacker should operate at low load during the initial stage of use, especially within 100 hours, and should meet the following requirements:
- It is necessary to prevent over discharge of new batteries during initial use.
- The prescribed preventive maintenance should be thorough.
- Avoid sudden braking, driving, or turning.
- Limit the weight of the load to 70% to 80% of the rated load.
- During the running-in period, the fasteners of each connecting part should be checked and tightened frequently.
- At the end of the break-in period, the hydraulic oil should be replaced.

6.3 First Use and Running-In

Initial Setup:

1. Inspect the entire stacker for damage or loose components
2. Check all hydraulic connections for leaks
3. Verify that all fasteners are tight
4. Test all controls and safety devices
5. Ensure wheels rotate freely

Initial Battery Charging:

1. Install the battery into the stacker
2. Connect the charger to a standard 120V AC outlet
3. Connect the charger to the battery connector
4. Allow the battery to charge fully (4-7 hours depending on battery type)
5. Do not operate the stacker with a partially charged battery

Running-In Period:

During the first 8 hours of operation, observe the following guidelines:

1. Operate at reduced loads (no more than 50% of rated capacity)
2. Avoid extended periods of continuous operation
3. Monitor all systems closely for unusual noises or vibrations
4. Check hydraulic connections for any leaks
5. Recharge the battery fully after each operating period
6. Allow the equipment to cool between operating sessions

7. Maintenance Schedule

7.1 Maintenance Overview

Regular maintenance is essential to ensure the SST15+ series operates safely and reliably. Proper maintenance extends equipment life, reduces downtime, and prevents accidents. All maintenance must be performed by qualified technicians using appropriate tools and parts.

7.2 Daily (D) Maintenance

- Perform pre-operation inspection as described in Section 5.1
- Check all control buttons for proper operation
- Monitor battery charge level and recharge as needed
- Inspect forks for damage or wear
- Verify parking brake function
- Listen for unusual noises or sounds
- Wipe down control panel and handle assembly
- Check for any visible leaks or damage

7.3 Weekly (W) Maintenance

- Inspect wheel condition and check for foreign debris
- Check hydraulic system for leaks
- Test lift and lower functions under full load
- Inspect electrical connections for corrosion or looseness
- Clean debris from motor cooling areas
- Verify all warning labels are present and legible
- Lubricate bearing points as specified
- Check mast for smooth extension and retraction

7.4 Monthly (M) Maintenance

- Conduct full equipment safety inspection
- Check battery terminals for corrosion and clean if necessary
- Verify charger function with test charge cycle
- Inspect steering mechanism for proper operation

Test emergency stop function
Check all fasteners and bolts for tightness
Lubricate pivot points and moving joints
Inspect mast guides and rollers for wear
Check electromagnetic brake operation

7.5 Quarterly (T) and Semi-Annual (S) Maintenance

Schedule professional service at authorized service centers
Conduct load testing to verify capacity ratings
Perform comprehensive electrical system diagnostics
Inspect and service hydraulic system components
Check and adjust electromagnetic brake clearance
Replace hydraulic fluid if necessary (based on condition)
Inspect and clean suction strainer in hydraulic reservoir
Review and document all maintenance activities
Replace any worn or damaged components

7.6 Lubrication and Fluids

Hydraulic Oil: Use L-HM32 hydraulic oil for normal conditions. For high-altitude or cold environments, use L-HV32 hydraulic oil. Check hydraulic fluid level regularly and maintain between minimum and maximum marks.

Grease: Apply automobile general 3# lithium base lubricant (grease code C) for nozzles and lubrication points. Apply Shell Alvania R3 lubricating grease (code D) for gearbox. Lubricate mast chains with appropriate chain spray (code E).

Maintenance Intervals:

- Gearbox grease: Add as needed
- Steering bearing lubrication: Weekly
- Mast chain lubrication: Monthly
- Hydraulic hose replacement: 1-2 years

8. Troubleshooting & Fault Codes

8.1 Troubleshooting Overview

This section provides guidance for diagnosing and resolving common issues with the SST15+ series. If you encounter a problem not listed here, or if the suggested solutions do not resolve the issue, contact Sumachay Lifts for professional service assistance.

8.2 Equipment Will Not Start

Issue	Possible Cause	Solution
Equipment will not start when key is turned ON	Battery only discharged	Charge battery fully using the original charger (4-7 hours)
	Loose or corroded battery connections	Inspect battery terminals; clean if necessary; verify connections are secure
	Faulty key switch	Contact Sumachay Lifts for service
	Electronic failure	Do not attempt repairs; contact authorized service center

8.3 Equipment Moves Slowly or Not at All

Issue	Possible Cause	Solution
Equipment moves slowly or is unresponsive	Low battery charge	Check battery level; recharge if below 20%
	Flat or damaged wheels	Inspect wheels for damage; replace if necessary
	Motor malfunction	Contact Sumachay Lifts for professional service
	Load exceeds rated capacity	Remove excess weight; verify load is 1,500 kg (3,300 lbs) or less

8.4 Forks Will Not Lift

Issue	Possible Cause	Solution
Forks will not lift or lift very slowly	Load exceeds rated capacity	Reduce load weight to 1,500 kg (3,300 lbs) maximum
	Low battery charge	Charge battery fully before operation
	Hydraulic fluid low	Contact Sumachay Lifts for fluid inspection and refill
	Lift pump malfunction	Contact authorized service center for repairs
	Motor overheating	Allow equipment to cool; reduce duty cycle

8.5 Charging LED Fault Codes

The charging LED on the SST15+ provides visual indicators of the battery and charger status:

LED Status	Meaning	Action
Flashing Red	Battery charging in progress	Normal operation; do not interrupt
Solid Green	Fully charged or waiting for battery	Battery ready for use
Solid Yellow	Battery malfunction	Do not use battery; contact service
Flashing Yellow	Charger malfunction	Replace charger; contact Sumachay Lifts

9. Battery Guide

9.1 Battery Specifications

The SST15+ series is equipped with 24V battery technology. Two battery types are available:

GEL Batteries (AGM - Absorbed Glass Mat):

- Voltage: 24V (two 12V modules in series)
- Capacity Options: 71Ah or 89Ah
- Chemistry: Lead-acid GEL
- Weight: Approximately 23.3 lbs (71Ah) or 25.8 lbs (89Ah) per module
- Maintenance: Periodic water level checks recommended

Lithium Batteries (LiFePO₄ - Lithium Iron Phosphate):

- Voltage: 24V (two 12V modules in series)
- Capacity Options: 60Ah or 100Ah
- Chemistry: LiFePO₄ (Iron Phosphate)
- Weight: Approximately 35-50 lbs depending on capacity
- Maintenance: Minimal; built-in battery management system
- Lifespan: 3,000-5,000 charge cycles (10-15 years typical)

9.2 Charging Instructions

CRITICAL WARNING - Charging Temperature Requirements:

GEL and Lithium batteries **MUST ONLY** be charged when the ambient temperature is above 0°C (32°F). **Never charge below 0°C (32°F)**. Doing so will cause severe battery degradation or safety incidents.

Charging Procedure:

1. Ensure the battery is at room temperature (15°C to 25°C preferred)
2. Connect the original Sumachay Lifts charger to a standard AC outlet (120V, 60 Hz)
3. Connect the charger plug to the battery connector on the stacker
4. The charging LED will display flashing red while charging
5. Charging typically requires 4-5 hours for GEL batteries and 3-4 hours for Lithium batteries
6. When fully charged, the LED will display solid green
7. Disconnect the charger and battery plug
8. Store the charger in a dry location

Important Charging Guidelines:

- Use **ONLY** the original charger supplied by Sumachay Lifts
- Never attempt to use alternative or third-party chargers
- Do **NOT** charge a wet or damp battery
- Do **NOT** charge in wet or rainy conditions
- Charge the battery fully after each day of use to maintain long-term health
- Allow the battery to reach room temperature before charging after cold storage
- If the battery feels hot, allow it to cool before charging

9.3 Battery Care and Maintenance

Proper care and maintenance of the SST15+ battery will extend its lifespan and maintain performance:

Charge the battery fully after each day of use to maintain long-term health

Store the battery in a cool, dry location (15°C to 25°C) when not in use

Keep the battery terminals clean and free of corrosion; clean with a dry cloth if needed

Do NOT wash the battery directly with water; this will damage internal components

Inspect the battery case regularly for cracks, dents, or damage

If the battery case is damaged, contact Sumachay Lifts for replacement; do not attempt repairs

Never expose the battery to direct sunlight for extended periods

Do NOT disassemble the battery or attempt to open the case

Never expose the battery to extreme heat (above 60°C / 140°F)

Store the battery away from flammable materials and in a non-hazardous location

For GEL batteries: Periodically check water level and top up with distilled water if needed

9.4 Using the Original Charger

CRITICAL REQUIREMENT: Use ONLY the Original Sumachay Lifts Charger

The SST15+ battery must be charged exclusively with the original charger supplied by Sumachay Lifts. Using alternative, third-party, or incompatible chargers will:

- Damage the battery permanently
- Void the equipment warranty
- Create a fire or explosion hazard
- Reduce battery lifespan and capacity
- Result in equipment malfunction
- Potentially cause serious injury or death

Charger Warning: Do NOT use the SST15+ stacker charger to charge other batteries, tools, or equipment. The charger is designed exclusively for the SST15+ series battery and is not compatible with other systems.

9.5 Battery Replacement

When the battery reaches the end of its useful life, it must be replaced with an original Sumachay Lifts battery of the same type and capacity. Contact Sumachay Lifts for battery availability and pricing. Do not attempt to repair or recondition old batteries; they must be disposed of in accordance with local environmental regulations.

10. Warranty & Support

10.1 Limited Warranty

Sumachay Lifts provides a limited warranty on the SST15+ series electric pallet stacker. This warranty covers manufacturing defects in materials and workmanship under normal operating conditions for a period of two (2) years from the date of original purchase.

Warranty Coverage Includes:

- Defects in the frame, hydraulic system, and mechanical components
- Drive motor and lift motor failures
- Electrical system and control panel defects
- Battery defects (capacity loss exceeding 20% of rated capacity)
- Manufacturing defects in forks, mast, wheels, and other components

Warranty Does NOT Cover:

- Normal wear and tear from regular use
- Damage from misuse, abuse, or neglect
- Damage from failure to perform required maintenance
- Damage from operating outside specified environmental conditions
- Damage from overloading or exceeding rated capacity
- Damage from unauthorized repairs or modifications
- Damage from using non-original parts or chargers
- Accidental damage or drops
- Cosmetic damage (dents, scratches, paint chips)
- Consumable items (wheels, hydraulic fluid)

To obtain warranty service, contact Sumachay Lifts with proof of purchase and a description of the issue. All warranty claims must be submitted within thirty (30) days of the defect discovery.

10.2 Customer Support

Sumachay Lifts provides comprehensive customer support for all SST15+ series equipment:

Technical Support: Contact our technical support team for operating questions, troubleshooting assistance, and maintenance guidance.

Service and Repairs: We provide professional service and repair through authorized service centers. Contact us to locate a service center near you.

Parts and Accessories: We supply genuine SST15+ replacement parts, batteries, chargers, and accessories. Contact us for parts ordering and pricing.

Training and Documentation: We offer operator training, maintenance training, and comprehensive documentation for all SST15+ users.

Contact Information:

Sumachay Lifts

Email: support@sumachaylifts.com

Phone: 1-800-SUMACHAY (1-800-786-2242)

Website: www.sumachaylifts.com

10.3 Manual Updates and Revisions

This manual is subject to periodic updates and revisions. The most current version of the SST15+ Operation & Maintenance Manual is always available at www.sumachylifts.com. Operators should periodically check for manual updates to ensure they have the latest safety and operating information.

End of Document

SST15+ Operation & Maintenance Manual

Revision 1.0 — March 2026

© 2026 Sumachay Lifts