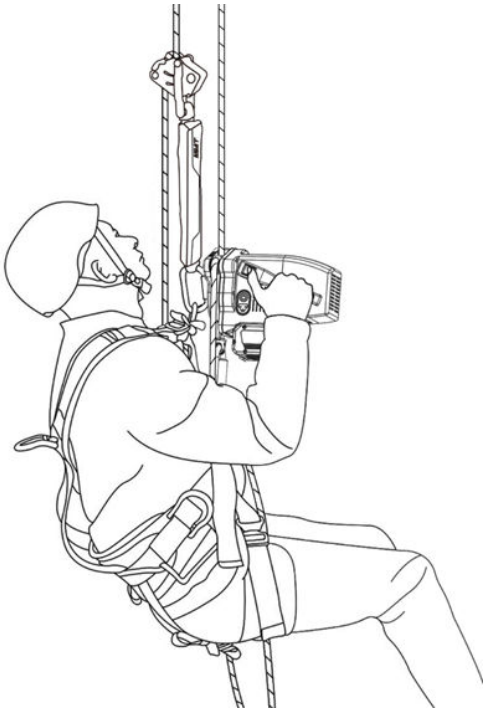
ASAT Power Ascender
ACE-51
Operation Manual



Contents

1.Safety Precautions----------2

2.Applications----------2

3.Training ----------2

4.Description----------3

5.Product Use----------8

6.Associated Equipment ----------15

7.Inspection----------16

8.Storage, Transportation, Cleaning and Mandatory Inspetion----------17

9.Service Life----------17

10.Limited Warranty----------18

11.Marking----------18

12.Troubleshooting----------19

Appendix. Annual Inspection Record Sheet

ASAT
ACE-51 Power Ascender

1. Safety Precautions

Warning:

- The Powered Ascender ACE-51 (hereinafter referred to as 'the device'), shall only be used by trained persons who possess relevant safety knowledge.
- The rope must be installed with a specific direction in ACE-51. Incorrect installation may result in equipment damage and personal injury or death.
- The back-up fall arrest system must be used with this device.
- The users must ensure that the harness and accessories are compatible with the device.
- The users must read and fully understand the relevant operation instructions provided by SKYER. Failure to follow the instructions may result in serious injury or death.
- Before each use, the user must check the device and ensure that it is in normal working condition.
- Before each use, the user must make sure that all markings on it are complete and legible. If any query, please contact SKYER customer service or its authorized agencies.
- Never use the device in explosive environment.
- The device must never withstand dynamic loading during operation.
- Use only the original parts of the device.
- Maintenance shall be performed by competent persons, who have been trained and certified by SKYER.
- The anchor point used for the device must be in accordance with EN 795 or ANSI/ASSE Z359.15:2014.
- Do not allow the rope (used with this device) to come into contact with sharp edges, corrosive substances, flames, or any other objects that can damage the rope.
- Conduct the risk assessment and prepare the relevant rescue plan before each use.
- Only ropes recommended by SKYER or approved by qualified personnel and meeting EN 1891A may be used with the device.
- The device and its associated equipment must be inspected annually.

2. Applications

2.1 Ascending and descending: the device can move along a fixed line.

2.1.1 Personnel operation: The user wears a safety harness, attaches to a back-up fall arrest system, and operates the thumb shifter of the device to ascend and descend along the rope.

Attention: Only for one-person!

2.1.2 Remote control: The user uses a remote control to operate the device with loads moving along the rope.

Attention: Do not apply load on the free side of rope, ACE-51 cannot move on a tensioned line!

Attention: The operating load shall never exceed the device's load limit. If the load exceeds load limit, reduce speed immediately.

2.2 Hauling and lowering: The device is installed on an anchor point for hauling and lowering a load.

3. Training

Users must have received the training from SKYER or an agency authorized by SKYER and obtained the certificate before using the device. The training content shall include, at a minimum but not limited to, the following:

● Basic knowledge and skills for rope access.

● Operation and inspection of the device: after the training, users shall operate, inspect and maintain the device correctly.

● Work safety training: after the training, users shall comprehend the necessary safety management plans, relevant policies, work permit and work areas planning, and can conduct relevant Job Safety Analysis.

● Knotting: after the training, users can make knots listed as follows independently and comprehend the application, strength and limit of these knots.

● Knots on anchor points: such as figure of eight, butterfly knot.

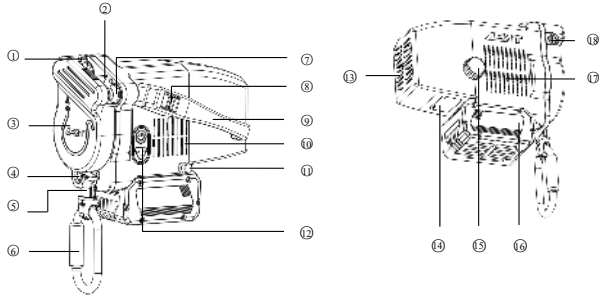
● Application of double rope system and associated equipment.

● Use of descender.

● Set up anchor points.

4. Description

4.1 Device Composition



4.2 Components

No.	Item	No.	Item
1	Rope guide pulley (anchor side of rope)	10	Ventilation holes
2	Rope separator	11	Battery secondary lock
3	Rope sheave protection cover	12	Control panel
4	Emergency stop button	13	Ventilation holes
5	Attachment sling	14	Markings
6	Carabiner	15	Manual descent lever cover
7	Rope guide pulley (free side of rope)	16	Battery
8	Thumb shifter	17	Ventilation holes
9	Handle	18	The lock of rope sheave protection cover

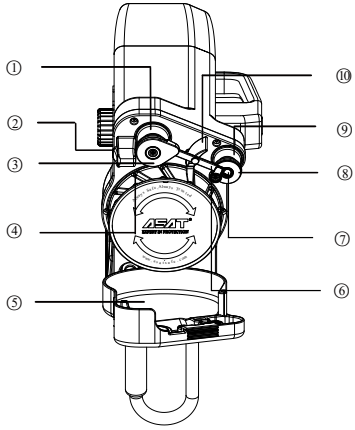
4.3 Technical Parameters

Specifications	ACE-51
Rope	Dedicated semi-static rope: φ11 mm in accordance with EN1891 A
Operation Mode	Ascending and Descending or Hauling and Lowering
Rated Working Load	100kg
Working Load Limit	150kg
Ascending Speed	0-15m/min（100kg）(Stepless speed regulation)
Descending Speed	0-20m/min（100kg）(Stepless speed regulation)
Total Travel (ascending and descending alternately)	>400m/100kg (8Ah battery, height 20m) >550m/100kg (12Ah battery, height 20m)
Continuous Ascending travel capacity	>200m/100kg (8Ah battery) >275m/100kg (12Ah battery)
Charging Time	<2 h (8Ah battery, 4A charger) <3 h (12Ah battery, 4A charger)
Operating Temperaturerange	-10℃ to +50℃
Overheat Protection	Yes
Weight (without battery)	3.6kg
Size	25×13×17cm
Remote Control Distance	>100m(in open areas)
Manual Descent Control	Yes

Optional Battery	BOSCH ProCORE 18V 8.0Ah, 12Ah
Optional Charger	BOSCH Professional 18V 4A

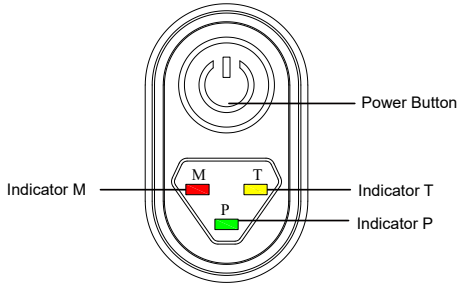
4.4 Main Components

4.4.1 Components of rope sheave assembly



1-Rope guide pulley (Anchor side of rope)
2-The lock of rope sheave protection cover
3-Axis of rope guide pulley (Anchor side of rope)
4-Rope sheave
5-Rope sheave protection cover
6-Rope positioning bar
7- The lock button of rope positioning bar
8-Axis of rope guide pulley (Free side of rope)
9-Rope guide pulley (Free side of rope)
10-Rope separator

4.4.2 Control Panel Button and Display



4.4.2.1 Power Button

When the device is power off, press the power button and switch off the emergency stop, the device will be energized and process self-test, the indicator P flashes accompanied by 'beeps' from the motor. After the self-test is complete, the device is ready for normal operation.

Under normal mode, press and hold the power button for 3 seconds, then release it, all indicator lights will be turned off and the device will be shut down.

4.4.2.2 Indicator T (yellow): motor temperature alarm light

When the motor temperature is too high, the indicator T flashes (light on for 0.5s, off for 0.5s) and the device stops.

Under normal condition, the T light is off.

4.4.2.3 Indicator M (red): motor fault indicator

When the rope sheave becomes jammed due to unexpected reasons, the motor stalls, the M light stays on, indicating a shutdown.

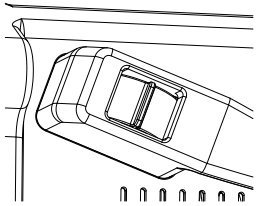
4.4.2.4 Indicator P (green): power indicator

After power-on, the P light flashes (fast flash) for 4 seconds, the device is initializing. After initialization, the P light stays on.

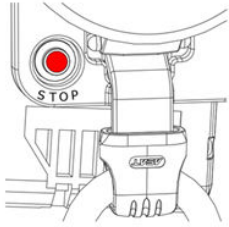
After pressing the emergency stop button, the P light flashes (light on for 0.5s, off for 1.5s), and the machine stops.

4.4.3 Thumb Shifter

The thumb shifter is used by operator to control the power ascender to ascend and descend. Operated with the right thumb: push forward to turn the rope sheave counterclockwise for ascent, pull back to rotate it clockwise for descent.



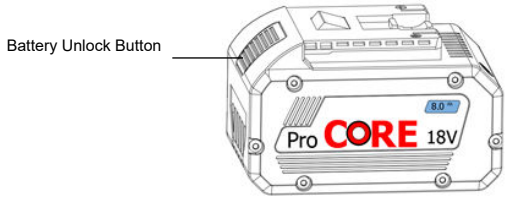
4.4.4 Emergency Stop Button

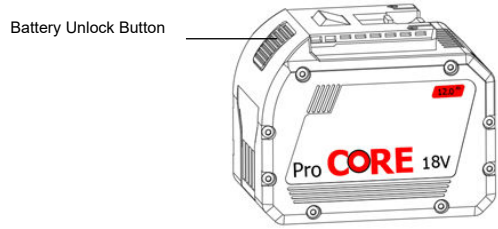


In any case, if the emergency stop button is pressed down, the device will stop immediately and lock on the working rope. And indicator P will flash (light on for 0.5s, off for 1.5s).

4.4.5 Battery

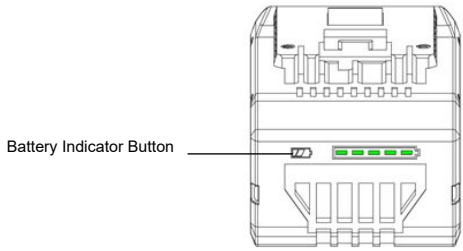
The device uses a removeable high-power lithium-ion battery. Bosch batteries are optional. BOSCH battery (ProCORE 18V: 8Ah, 12Ah), as shown below:





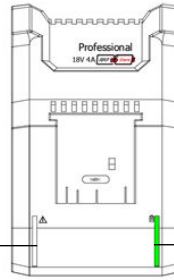
Battery Indicator:

Press the battery indicator button, and the five LED lights will display the battery level. As shown below:



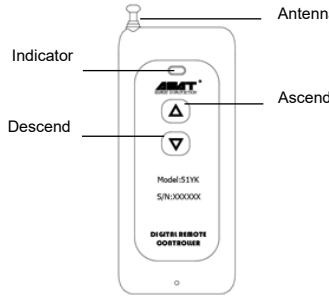
4.4.6 Charger

If Bosch batteries are used, they can be charged with Bosch charger of the following models: Bosch Professional 18V 4A, or Bosch Professional 18V 2A (slow charging). As shown below:



4.4.7 Remote Control

ACE-51 remote control, as shown below:



5. Product Use

Attention: A backup fall arrest system must be used at all times during operation.

Attention: There is the risk of falling objects when the user is working at heights, protective measures shall be taken to isolate the dangerous area in order to prevent the unauthorized personnel entering.

Attention: Users must always ensure that all personal tools and equipment are securely attached and properly fixed.

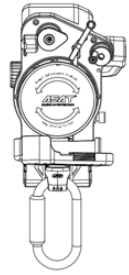
5.1 Rope Installation

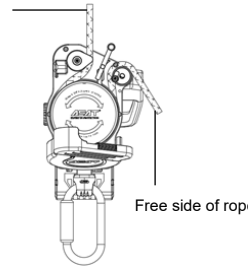
5.1.1 Working Rope Installation:

Press the lock of rope sheave protection cover and open the cover. Press the lock button of rope positioning bar and rotate the bar counterclockwise to the vertical position. Put the rope sequentially through the rope guide pulley (free side), the rope sheave, and the rope guide pulley (anchor side), as shown below:



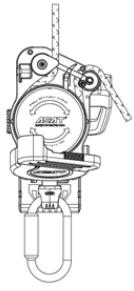


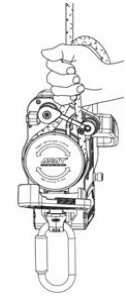


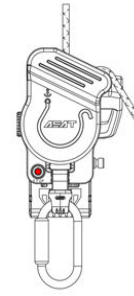


Attention: The anchor point of the working rope must be located above the rope guide pulley on the left side. The working rope must first pass the rope guide pulley (free side), pass around the rope sheave, and then pass the rope guide pulley (anchor side). DO NOT install the rope in reverse orientation.Incorrect installation may result in equipment damage and personal injury or death.

Rotate the rope positioning bar clockwise until the lock button secures it in place. Pull the rope upward to tighten it. Close and lock the rope sheave protection cover. As shown below:







After the rope is installed and before starting work, the following two points must be checked:

①Whether the anchor point of the working rope is located above the rope guide pulley (anchor side)?

②Whether the rope sheave protection cover is locked, and whether there is a large gap between the rope sheave protection cover and the side plate?

The anchor point is above the rope guide pulley (anchor side) and the rope sheave protection cover is locked, the absence of a large gap between the rope sheave protection cover and the side plate indicate that the cover is correctly installed and locked, meeting the working conditions.

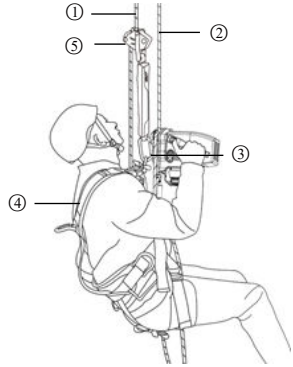
Attention: Operating the device when the rope sheav.

5.1.2 Back-up Fall Arrest Rope System: A back-up fall arrest system MUST be installed.

Install a fall arrest device on the back-up line and connect it to the sternal attachment point of the harness.

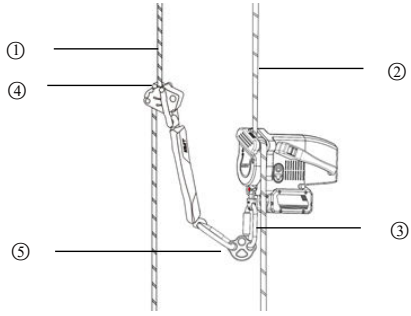
Connect the carabiner of the device to the ventral attachment point of the user's harness.

Connect the fall arrester to the sternal attachment point of the harness.



1-Back-up Rope
2-Working Rope
3-Carabiner
4-Full Body Harness
5-Fall Arrester

When transporting materials or when the device operates by the remote control, connect a fall arrester to the carabiner of the device.

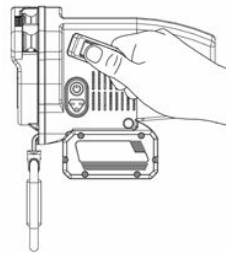


1-Back-up Rope
2-Working Rope
3-Carabiner
4-Fall Arrester
5-Rigging plate

5.2 Operation

Press the power button, the device powers on normally. Press emergency stop button, release (pop up) to unlock. Wait for the 4-second self-test to complete, the P indicator will stay on.

Push the thumb shifter forward, the rope sheave rotates counterclockwise, and the device ascends. Pull the thumb shifter backward, the rope sheave rotates clockwise, and the device descends. The greater the angle the thumb shifter is pushed/pulled, the faster the device moves.



During descent, if the device battery is fully charged, it will alarm and be unable to descend continuously. In this case, descent at low-speed repeatedly.

Attention: In case of ascending or descending vertically, in order to relieve the twisting stress in the rope, start the device ascending off the ground and suspend for several seconds to release twisting stress in the rope. Then the subsequent running will become smooth.

Attention: Adjust your body posture, the positions of the rope, device and fall arrester properly.

Attention: Keep the running speed of the device below the triggering speed of the fall arrester.

Attention: The device will stop running as soon as the thumb shifter is released at any time.

Attention: When performing continuous long-distance descending operations, the battery must not be fully charged (idle running can be used to consume an appropriate amount of power).

DANGER! Do not grasp the rope section above the device during ascending or the rope section below the device during descending.

5.3 Emergency Stop

Pressing the emergency stop button will immediately stop the device. At this time, the P indicator flashes (light on for 0.5s, off for 1.5s).

Switch off the emergency stop, the device starts to self-test. The P indicator flashes accompanied by motor beeps. After the self-test, the P light stays on, and normal operation can proceed.

Attention: During working at heights, press down the emergency stop button to prevent maloperation.

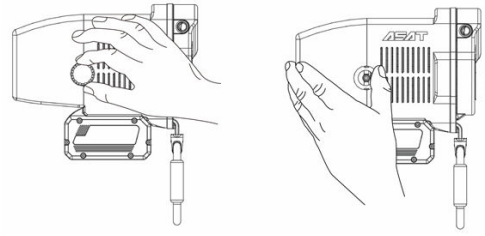
Attention: Before the device is powered off or on, press down the emergency stop button to prevent maloperation.

5.4 Manual Descending

During ascending and descending vertically, if the battery is run down or the device is out of order, the user can descend to the ground safely by the function of manual descending.

Manual Descending Steps:

- Press down the emergency stop button.
- Turn off the power.
- Open manual descent lever cover.
- Push the manual descent lever to the left to descend. The descent speed is limited, pushing the lever beyond a certain point will not increase the speed.
- The manual descent force required depends on the load: the greater the load, the smaller the starting force required for manual descent.
- Once the manual descent lever is released, it returns to its original position to stop descending.



Attention: Do not use manual descending function continuously over a long distance.

Attention: Manual descending should not be used when the machine is functioning normally. Manual descending may cause impairment to the motor, control the descending speed.

DANGER!! In case the device is powered on and operated normally, if manual descending is required, the power must be switched off, press down the emergency stop button, and then descend manually, otherwise, manual descending will not work and may damage the device.

5.5 Remote Control Operation

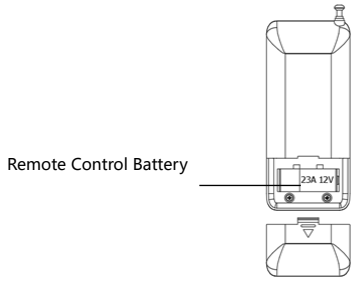
Before using the remote control, ensure the device is powered on. For longer distances, pull out the remote control's antenna.

Press the ascend or descend button on the remote control. The indicator light comes on, indicating it's working, and the device moves. Releasing the button stops the device.

The remote control distance is 0-100 meters, dependent on actual environmental conditions, remote control battery level, and other factors.

Operation via the thumb shifter takes priority over remote control operation.

When the remote control distance becomes significantly shorter, indicating that the remote control battery is low and needs replacement: Open the remote control's battery compartment cover to replace the battery. The battery type is 23A 12V.



Attention: Before using the remote control function, a test run must be conducted in a safe environment to ensure the direction of movement is correct (rope installation and anchor point are correct).

Attention: Operation must be within visual range, remote control operation must ensure safety.

Attention: Rope installation direction: Facing the rope sheave, the rope above the sheave on the left side is the anchor side, the rope on the right side of the sheave is the free side of rope.

Attention: The remote control operates the device at its maximum speed, speed cannot be adjusted via the remote control.

Attention: For optimal remote control performance, there should be a clear line of sight between the remote control and the device.

Attention: The remote control and device are paired one-to-one, ensure correct pairing before use.

Attention: When using the remote control, if the distance is too far, the device may operate intermittently and unstably. Immediately use the remote control to drive the device closer to avoid losing control!

Attention: When using the remote control, two or more devices must not be used at the same time to avoid mutual interference.

Attention: For prolonged periods of non use, the battery should be removed from the remote control to prevent potential electrolyte leakage and undue depletion.

5.6 Battery Installation and Removal

5.6.1 Battery Removal: With the device powered off, press the red unlock button on the battery and pull the secondary lock on the battery with the left hand, and then pull the battery out. Note that both the secondary lock and the battery unlock button must be actuated simultaneously to release the battery. As shown below:



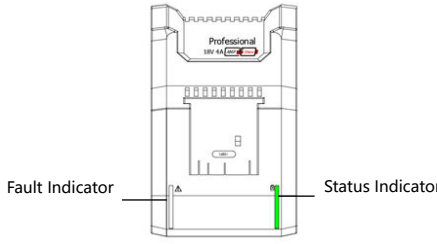
5.6.2 Battery Installation: Align the battery's upper slot with the device's lower guide rail, pull up the secondary lock, insert the battery to the bottom, and then release the secondary lock, as shown below.

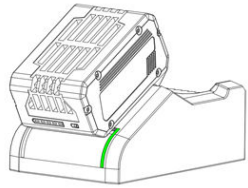


Attention: Before operation, always confirm that the battery is securely installed.

5.7 Battery Charging

When the charger is plugged into a power outlet, the status light stays on. When charging begins, the charger status light starts flashing. When fully charged, the status light stays on. If a fault prevents charging (e.g. high battery temperature), the fault indicator (red) lights up, as shown below:





Attention: Batteries completely depleted of power should be recharged as soon as possible to prevent them from becoming unusable.

During long-term storage, check the battery charge level and recharge it every three months.

5.8 Alarms

5.8.1 Low Battery: During operation, when the battery voltage is low, the device emits a "beep-beep" alarm sound and begins to operate at reduced speed. Subsequently, the device may become unable to ascend and may only be able to descend.

5.8.2 Battery Low Voltage Protection: During operation, if attempting a rapid start for ascent causes immediate stoppage, but a slow start works, it indicates the battery voltage is too low. It is recommended to replace the battery before continuing.

5.8.3 High Battery Temperature: After prolonged continuous operation, when the battery temperature rises and reaches a preset threshold, the battery will stop outputting power, and the device will be in a power-off state. After the battery cools down for a period and below the threshold, the device can be powered on again.

5.8.4 High Device Temperature: If the device powers off during prolonged operation, do not immediately restart it. This is caused by overheating of the device, allow the device to cool down for a period of time before powering on again.

5.8.5 Overload: When the load exceeds a preset value or acceleration exceeds a preset value, the device will force a shutdown (power off) and stop operation.

5.8.6 System Self-test: When the device starts up, it performs a self-test. During the self-test, the device emits a regular "beep-beep-beep" prompt sound, and the P indicator flashes (on for 1s, off for 1s). After the self-test is complete, the P indicator stays on, and the sound stops.

5.8.7 Motor Fault: When the motor is blocked by an abnormal cause, resulting in a stall condition, the device will automatically stop running, and the M indicator light (red) will stay on. After a motor fault occurs, inspect the device and restore normal motor operation. Then press the emergency stop button or switch on power to clear the fault and resume normal use of the device.

5.8.8 High Motor Temperature: After prolonged continuous operation, when the motor temperature rises and reaches a preset threshold, the device will force a stop, and the indicator T flashes (on for 0.5s, off for 0.5s). After the motor cools down for a period, the indicator T turns off, and the device can operate normally.

5.8.9 Descent Charging Protection: During descent operation, if the load is heavy and the descent speed is high, causing the charging current to the battery to exceed the set value, the device will force a shutdown (power off) and stop operation.

6. Associated Equipment

6.1 Harness

The device can only be used in conjunction with the harness that complies with both EN 361 and EN 813 standards, or alternatively, a fall-arrest and seat harness that meets the applicable standards of the country/region where it is used.

6.2 Anchor Point

The anchor point used with the device must have a minimum strength of 12 kN and shall comply with EN 795 or GB 30862, or with the applicable anchor point standards of the country/region where it is used.

Selection of anchor points is crucial to safety. The anchor positions should keep the ropes away from sharp edges or subjects.

6.3 Connecting Parts

The connecting parts as follows can be selected for use with the device:

Lanyards in accordance with EN 354/EN 795.

Load sharing devices in accordance with EN 17961.

Carabiners in accordance with EN 362.

6.4 Rope

Only 11 mm ropes that comply with EN 1891 Type A must be used.

The dedicated ropes provided by SKYER for the device are recommended.

If use other ropes, the compatibility shall be verified by a competent person.

6.5 You must be working with a back-up fall arrest system.

7. Inspection

7.1 Daily Inspection

7.1.1 The user must be professionally trained and inspect the device body before each use. Checks include:

7.1.1.1 Rope positioning bar: No excessive wear, rotates normally, lock button functions correctly.

7.1.1.2 Rope Sheave Protection Cover: Magnets are undamaged, opens/closes normally, cover shows no excessive wear.

7.1.1.3 Rope Separator: No excessive wear.

7.1.1.4 Rope Guide Pulley (anchor side): Rotates freely.

7.1.1.5 Rope Guide Pulley (free side): No damage, rotates freely.

7.1.1.6 Attachment Sling: There is no damage or broken strands.

7.1.1.7 Carabiner: There are no cracks or rust, and the locking function is normal.

7.1.1.8 Device Casing: There are no cracks or corrosion. All screws are tightened.

7.1.1.9 The functions of operating buttons, thumb shifter and remote control are normal.

7.1.1.10 The battery level for device and remote control is sufficient for the task.

7.1.2 Rope: Verify that the sheath, sewn ends, and diameter are in good condition for use with the device.

7.1.3 Check of associated equipment.

7.1.4 Check record of the device from within the last 12 months.

7.1.5 After each use, the device must be checked by a competent person to verify that no damage is found after the operation, and the results should be recorded.

7.1.6 Annual inspection and annual inspection record sheet

The device must be inspected every 12 months by a competent person and the inspection result recorded.

Attention: The inspection result of the device must be filled in Annual Inspection Record Sheet provided by SKYER.

Attention: If any defect that endangers safety is found, never use the device further and send it to a qualified agency of SKYER for repair.

7.2 Refer to Annual Inspection Record Sheet.

8. Storage, Transportation, Cleaning and Mandatory Inspection

8.1 Storage

The device shall be packed in a box, which is light-proof, moisture-proof and chemical-resistant, for storage and transportation.

8.2 Transportation

For handling at the work site, the user can carry the device by the handle on the device. For distance transportation, the device shall be packed properly.

Attention: For long-term storage, take the device out of the box and place it on a suitable storage rack.

8.3 Cleaning

Clean the device regularly. Check the rope sheave, guide pulleys, rope sheave protection cover assembly, rope separator, lock button, rope positioning bar, etc.. Use compressed air to blow away residual rope debris from components like the rope sheave, guide pulleys, protection cover assembly, lock button, rope separator, and rope positioning bar.

8.4 Mandatory Inspection

DANGER!

If any abnormality, such as fault or defect, is found in any check or inspection, carry out a comprehensive inspection to the device!

9. Service life

The device has the following consumable parts with the indicated service life:

9.1 Battery: Retirement criteria for the battery. With a fully charged battery and 100kg load, tested over a 10-meter height, if the total ascending/descending travel is less than 100m before the battery depletes, the battery is considered for retirement. Batteries used for 4 years must undergo mandatory inspection for potential retirement.

9.2 Rope Sheave: Under maximum working load, using a new rope complying with EN 1891 Type A, if slippage occurs between the rope and rope sheave during ascent acceleration, the rope sheave must be replaced.

9.3 Rope Sheave Protection Cover: If excessive wear is observed on the rope sheave protection cover, it must be replaced.

9.4 Rope

Attention: Rope service life is closely related to usage conditions.

If the rope is used in extreme environments (e.g., extreme temperatures, chemicals, sharp or rough edges), its life will be significantly shortened.

If you cannot confirm the safety of the rope, it must be replaced immediately.

Under normal use, correct maintenance, and annual confirmation by a competent person: The rope must be replaced after 10 years of use.

9.5 The device shall be directly retired if any of the following is found

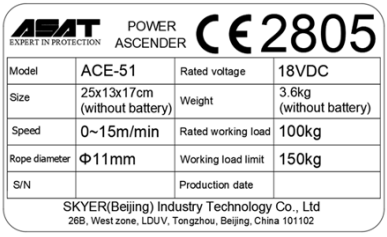
- Obvious damage to the left plate of the rope sheave mounting.
- Obvious impact damage to the housing that affects internal components.
- Water ingress into the machine.
- Failure of internal braking components.
- Failure of internal drive components.
- Failure of internal control components.

10. Limited warranty

SKYER provides a 1-year warranty for the mechanical components and a 6-month warranty for the electrical components of the power ascender. The warranty does not extend to normal wear and tear, deformation, oxidation, modifications or alterations, damage caused by impact to the device, incorrect loading, water ingress, rust, or the use of incompatible accessories during user operation, misuses, incorrect storage, poor maintenance, uses for which this product is not designed. SKYER is not liable for any direct or indirect consequences not resulting from quality defects.

11. Marking

11.1 Brand and Technical Parameter Label



ACE-51 meets all relevant requirements of European directives 2006/42/EC Machinery Directive.
Notified body performing the EU type examination:
Safenet Certification Services Ltd, Ducart Suite, Castletroy Park Commercial Campus
Plassey Park Road, Castletroy, Limerick, V94 Y6FD
Republic of Ireland
The CE Declaration of Conformity can be downloaded from the product page of www.asatsafe.com.

11.2 Rope Sheave Label



12.Troubleshooting

If any problem found cannot be solved by referring this manual, please contact SKYER or its distributors.

Fault message	Possible cause and remedy
The device cannot be energized when the power button is pressed down.	The battery is run-down or damaged.
	The battery is not securely installed.
	The battery terminal springs are loose.
Sudden speed reduction during operation.	Low battery voltage. Charge the battery.
Rapid ascent start stops immediately, slow ascent start works normally.	Low battery voltage. Charge the battery.
Sudden shutdown during operation.	1. High battery temperature, needs to cool down.
	2. Overload, reduce the load.
	3. Battery depleted, charge the battery.
	4. During descent, battery charging overcurrent occurs, reduce the load to lower the speed.
	5. Poor contact at the battery terminal interface.
Remote control cannot operate the device.	1. Obstacles between remote control and device.
	2. Low battery of remote control.
	3. Device is not powered on or has an operation alarm.
	4. Distance is too far or antenna is not pulled out.
	5. Remote control and device are not paired.
	6. Remote control or device are damaged.
Rope slips on the rope sheave.	1. Rope is not compatible.
	2. Rope sheave worn.
	3. Rope is damaged.
Indicator M stays on.	Motor stall. Check if the sheave is jammed for any reason. If it is in normal condition, press emergency stop or power on to reset.
Indicator T is flashing.	High motor temperature, stop operation for cooling.

Appendix. Annual Inspection Record Sheet

ASAT Power Ascender Annual Inspection Record Sheet

Customer:		
Product Name:		
Model/Serial Number	Inspection Site	Inspection Date
ACE-51		

No.	Inspection Item	Result
1	Rope Sheave Protection Cover	
2	Rope Positioning Bar and Lock Button	
3	Rope Separator	
4	Carabiner & Attachment Sling	
5	Device Housing	
6	Operation Buttons, LED Indicators, Thumb Shifter, Remote Control	
7	Tightness of Rope Sheave & Cover Mounting Screws	
8	Batteries (Power Ascender & Remote Control)	
9	Rope	
10	Rope Sheave	
11	Others	

Inspection Conclusion	
Inspected by (Signature)	

Manufacturer:SKYER (Beijing) Industry Technology Co.,Ltd
Address: 26B， West Zone, LianDo U Valley, No.17 Huan Ke Zhong Lu, Tong Zhou District, Beijing, PR China

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