

**MULTIFUNCTION FLOODLIGHT TOWER**

# STELLA



**Operator's Manual**



## INDEX

<b>1 INTRODUCTION</b> .....	<b>2</b>
<b>2 SAFETY INFORMATION</b> .....	<b>5</b>
2.1 SIGNAL WORDS USED IN THIS MANUAL.....	5
2.2 MACHINE DESCRIPTION AND INTENDED USE.....	6
2.3 OPERATING SAFETY.....	7
2.4 LAMP SAFETY.....	8
2.5 SERVICE SAFETY.....	9
<b>3 LABELS</b> .....	<b>10</b>
3.1 LABELS LOCATION.....	10
3.2 LABEL MEANINGS.....	11
<b>4 LIFTING AND TRANSPORTING</b> .....	<b>12</b>
4.1 TIE-DOWN POINTS.....	13
<b>5 ASSEMBLY INSTRUCTIONS</b> .....	<b>14</b>
5.1 PACKAGE CONTENTS.....	14
5.2 PROCEDURE REQUIREMENTS.....	14
<b>6 OPERATION</b> .....	<b>22</b>
6.1 PREPARING THE MACHINE FOR FIRST USE.....	22
6.2 ADJUST THE LIGHTS.....	22
6.3 OPERATING THE LIGHTS.....	23
6.4 RAISING THE TOWER (MANUAL WINCH SYSTEM).....	23
6.5 LOWERING THE TOWER (MANUAL WINCH SYSTEM).....	25
6.6 EMERGENCY SHUTDOWN PROCEDURE.....	25
<b>7 MAINTENANCE</b> .....	<b>26</b>
7.1 PERIODIC MAINTENANCE SCHEDULE.....	26
7.2 INSTALLING / REMOVING THE LIGHT FIXTURES.....	26
7.3 INSTALLATION AND MAINTENANCE THE LED MODULE.....	27
7.4 DAILY INSPECTION.....	27
7.5 LONG TERM STORAGE.....	28
<b>8 TROUBLESHOOTING</b> .....	<b>29</b>
<b>9 TECHNICAL DATA</b> .....	<b>30</b>
9.1 MACHINE.....	30
9.2 LED LAMP.....	30
<b>10 ELECTRICAL SCHEMATIC</b> .....	<b>31</b>
<b>11 DIMENSIONS</b> .....	<b>32</b>

## 1 INTRODUCTION

Thank you for trusting the **ENAR** brand.

For the maximum performance of the equipment, we recommend read carefully the safety recommendations, maintenance, and usage listed in this manual.

Defective parts should be replaced immediately to avoid major problems.

The effective longevity of the equipment will increase if the manual instructions are followed.

We will glad to help you with any comments or suggestions in reference to our equipment.

**SAVE THESE INSTRUCTIONS**—This manual contains important instructions for the machine models listed below. These instructions must be followed during installation and maintenance of the light tower (and battery, if equipped).

**Machines covered in this manual**

Machine	Item Number
STELLA	5100077095

---

### **DANGER**

**Carbon monoxide.** Using a generator indoors **CAN KILL YOU IN MINUTES.**

Generator exhaust contains carbon monoxide (CO). This is a poison you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.



- ◆ NEVER use a generator inside homes, buildings, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.
  - ◆ ONLY use a generator outside, and far away from homes, buildings, windows, doors, and vents. Windows, doors, and vents can pull in generator exhaust.
  - ◆ Point the engine exhaust away from homes, buildings, windows, doors, and vents. Also, point the engine exhaust away from combustible materials.
  - ◆ Even when you use a generator correctly, CO may leak into the home or building. ALWAYS use a battery-powered or battery-backup CO alarm in the home or building.
  - ◆ If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air RIGHT AWAY. See a doctor. You could have carbon monoxide poisoning.
-



**Machine identification**

A nameplate listing the model, item number, revision number, and serial number is attached to this machine. The location of the nameplate is shown above.

**Serial number (S/N)**

For future reference, record the serial number in the space provided below. You will need the serial number when requesting parts or service for this machine.

Serial number:

**Machine documentation**

- From this point forward, this document will refer to ENAR.  
Keep a copy of the Operator's Manual with the machine at all times.
- If you are missing any of these documents, please contact ENAR to order a replacement or visit [www.enargroup.com](http://www.enargroup.com).
- When ordering parts or requesting service information, be prepared to provide the machine model number, item number, revision number, and serial number.

**Expectations for information in this manual**

- This manual provides information and procedures to safely operate and maintain the above ENAR model(s). For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions described in this manual.
- ENAR expressly reserves the right to make technical modifications, even without notice, which improve the performance or safety standards of its machines.
- The information contained in this manual is based on machines manufactured up until the time of publication. ENAR reserves the right to change any portion of this information without notice.
- The illustrations, parts, and procedures in this manual refer to ENAR factory-installed components. Your machine may vary depending on the requirements of your specific region.

**Manufacturer's approval**

This manual contains references to approved parts, attachments, and modifications. The following definitions apply:

- **Approved parts or attachments** are those either manufactured or provided by ENAR.
- **Approved modifications** are those performed by an authorized ENAR service center according to written instructions published by ENAR.
- **Unapproved parts, attachments, and modifications** are those that do not meet the approved criteria.

Unapproved parts, attachments, or modifications may have the following consequences:

- Serious injury hazards to the operator and persons in the work area.

Permanent damage to the machine which will not be covered under warranty. Contact your ENAR dealer immediately if you have questions about approved or unapproved parts, attachments, or modifications.

## 2 SAFETY INFORMATION

### 2.1 SIGNAL WORDS USED IN THIS MANUAL

This manual contains DANGER, WARNING, CAUTION, NOTICE, and NOTE signal words which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.

---

This is the safety alert symbol. It is used to alert you to potential personal hazards.



- ◆ Obey all safety messages that follow this symbol.
- 

#### **DANGER**



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

- ◆ To avoid death or serious injury from this type of hazard, obey all safety messages that follow this signal word.
- 

#### **WARNING**



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

- ◆ To avoid possible death or serious injury from this type of hazard, obey all safety messages that follow this signal word.
- 

#### **CAUTION**



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

- ◆ To avoid possible minor or moderate injury from this type of hazard, obey all safety messages that follow this signal word.
- 

**NOTICE:** Used without the safety alert symbol, NOTICE indicates a situation which, if not avoided, could result in property damage.

**Note:** A Note contains additional information important to a procedure.

## 2.2 MACHINE DESCRIPTION AND INTENDED USE

This machine is a Multifunction Floodlight Tower. The ENAR Light Tower is perfectly fit for any construction jobsite. It is safe and simple, yet reliable and durable, and can be widely used for construction, municipal, road maintenance, commercial, landscaping and wherever the reliable and safe lighting is needed.

---

This machine is intended for the illumination of outdoor areas. Refer to the product specifications for the input voltage and frequency of this Light Tower, and for the maximum output power limit of this Light Tower.

---

This machine has been designed and built strictly for the intended use described above. Using the machine for any other purpose could permanently damage the machine or seriously injure the operator or other persons in the area. Machine damage caused by misuse is not covered under warranty.

The following are some examples of misuse:

- Overloading the machine with a device that draws excessive power during either continuous running or start-up
  - Operating the machine in a manner that is inconsistent with all federal, state and local codes and regulations
  - Using the machine as a ladder, support, or work surface
  - Using the machine to carry or transport passengers or equipment
  - Using the machine to tow other machines (unless factory equipped)
  - Using the machine as a hoist or hanging items from the tower
  - Operating the machine outside of factory specifications
  - Operating the machine in a manner inconsistent with all warnings found on the machine and in the Operator's Manual
- 

This machine has been designed and built in accordance with the latest global safety standards. It has been carefully engineered to eliminate hazards as far as practicable and to increase operator safety through protective guards and labeling. However, some risks may remain even after protective measures have been taken. They are called residual risks. On this machine, they may include exposure to:

- Electric shock and arc flash
- Personal injury from improper lifting
- Glare from lights (lights may blind drivers of nearby motor vehicles if the lights are incorrectly positioned)

### **Only if with generator**

- Heat, noise, exhaust, and carbon monoxide from the engine
- Fire hazards from improper refueling techniques
- Fuel and its fumes.

To protect yourself and others, make sure you thoroughly read and understand the safety information presented in this manual before operating the machine.



## 2.3 OPERATING SAFETY

### Operation training

Before operating the machine:

- Read and understand the operating instructions contained in all manuals delivered with the machine.
- Familiarize yourself with the location and proper use of all controls and safety devices.
- Contact ENAR for additional training if necessary.

When operating this machine::

- Do not allow improperly trained people to operate the machine. People operating the machine must be familiar with the potential risks and hazards associated with it.

### Personal Protective Equipment (PPE)

Wear the following Personal Protective Equipment (PPE) while operating this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear.

### Work area

- Make sure the area immediately surrounding the Light Tower is clean, neat, and free of debris.
- The tower extends up to 5 m (16 ft). Make sure the area above the light tower is open and clear of overhead wires and obstructions.

### Machine setup

- Make sure the machine is on a firm, level surface and will not tip, roll, slide, or fall while operating.
- Make sure the machine is well-grounded and securely fastened to a good earthen ground per national and local regulations.
- The machine must be leveled and the outriggers extended before raising the tower. The outriggers must be extended while the tower is down and the foot brakes are engaged.

### Machine integrity

- Do not start a machine in need of repair.
- Do not use the machine if the insulation on any electrical cord is cut or worn through.
- Do not operate the lights without the protective lens cover in place or with a lens cover that is cracked or damaged.
- Replace or repair electrical components with components that are identical in rating and performance to the originals.

**While operating the machine**



- Keep the area behind the light tower clear of people and obstructions while raising and lowering the tower.
- Do not raise the tower or operate the machine in high winds. Considering the safety factor, When the wind speed is less than 30kph, 5m height can be used. When the wind speed is greater than 30kph and less than 50kph, 3m height can be used. It is not recommended to use when the wind speed is greater than 50kph. Lower the tower immediately if high winds are expected in the area.
- Do not raise, lower, or turn the tower while the unit is operating.
- If any part of the tower hangs up, or the winch cable develops slack while raising or lowering the tower, STOP immediately! Contact an authorized ENAR service representative.
- Lower the tower when not in use. The operator should prevent twisting and pinching of cables and wires while lowering the tower mast
- Make sure the generator or counterweight on the frame is within 50 - 85 kg range before operating the machine.

**2.4 LAMP SAFETY**

**Description**

The lamps provided with your Light Tower are Light-emitting diode(LED) lamp. The luminaire contains constant-current driver(s) and LED module(s). It works under technical conditions as the product labels indicate.

---

**WARNING**



Personal injury hazard.

- Do not operate the Light Tower if a lamp is damaged.
- Replace damaged lamps immediately.
- Do not stare at the operating light source. The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 3.6 m is not expected.

---

**Operating safety**

- Replace damaged lamps according to the instructions in section *Removing /Replacing Lamps*.

## 2.5 SERVICE SAFETY

---



### **WARNING**

High voltage! This machine produces high voltage capable of causing serious injury or death.

- Only a qualified electrician should troubleshoot or repair electrical problems occurring with this machine.
- 

### **Precautions**

- To reduce the risk of personal injury, read and understand the service procedures before performing any service to the machine.
  - All adjustments and repairs **MUST** be completed before operation. Do not operate the machine with a known problem or deficiency!
  - All repairs and adjustments should be completed by a qualified technician.
  - Do not service the machine if your clothing or skin is wet.
- 

### **Personal Protective Equipment (PPE)**

Wear the following Personal Protective Equipment (PPE) while servicing or maintaining this machine:

- Close-fitting work clothes that do not hinder movement
- Safety glasses with side shields
- Hearing protection
- Safety-toed footwear

In addition, before servicing or maintaining the machine:

- Tie back long hair.
  - Remove all jewelry (including rings).
- 

### **Before servicing the machine**

- Turn the engine off before performing maintenance or making repairs.
  - Make sure the engine start switch is turned to OFF.
  - Make sure the circuit breakers are open (off).
  - Make sure the negative terminal on the battery is disconnected.
  - Do not perform even routine service (oil / oil filter changes, cleaning, etc.) unless all electrical components are shut down.
  - Make sure water has not accumulated around the base of the machine. If water is present, move the machine and allow it to dry before servicing.
  - If the machine must be started while servicing, keep hands, feet, and loose clothing away from moving parts on the generator and engine.
- 

### **Safety devices and modifications**

- Replace all safety devices and guards after repair and maintenance.
  - Do not modify the machine without the express written approval of the manufacturer.
-

## Replacing parts and labels

- Replace worn or damaged components.
- Use only spare parts recommended by ENAR.
- Replace all missing and hard-to-read labels.
- Check all external fasteners at regular intervals.

## Lifting and transporting

When lifting the machine:

- Make sure slings, chains, hooks, ramps, jacks and other types of lifting devices are attached securely and have enough weight-bearing capacity to lift or hold the machine safely.
- Remain aware of the location of other people when lifting the machine.
- Ensure that the transport vehicle has sufficient loading capacity and that the platform size is adequate to transport the equipment safely. See chapter Technical data.

To reduce the possibility of injury:






- Do not stand under the machine while it is being hoisted or moved.
- Do not get onto the machine while it is being hoisted or moved.



## 3 LABELS

### 3.1 LABELS LOCATION



## 3.2 LABEL MEANINGS

A		<p><b>NOTICE!</b> Lifting point</p>
B		<p>Team sticker with company logo.</p>
C		<p>A nameplate listing the model number, item number, revision number, and serial number is attached to each unit. Please record the information found on this nameplate so it will be available should the nameplate become lost or damaged. When ordering parts or requesting service information, you will always be asked to specify the model number, item number, revision number, and serial number of the unit.</p>
D		<p><b>CAUTION</b></p> <ol style="list-style-type: none"> <li>1. Before first operation, read the manual carefully</li> <li>2. Prohibition of use when it rains and strong winds to prevent accident</li> <li>3. Must cut off the power before the machine check/maintenance</li> <li>4. Contact with water will cause electric shock. Do not touch with wet hands.</li> </ol>
E		<p><b>CAUTION!</b> Pinch Point, Stay clear.</p>

F		<p><b>WARNING!</b></p> <ol style="list-style-type: none"> <li>1. It is absolutely essential that you know the safe and proper use of the power tool or appliance that you intend to use. All operators must read, understand and follow the tool/ appliance owners manual.</li> <li>2. Do not operate in rain, in wet or damp conditions, or with wet hands. The operator may suffer severe electric shock if the generator is wet due to rain or snow.</li> <li>3. Contact with water will cause electric shock. Do not touch with wet hands.</li> <li>4. Always unplug when not in use.</li> </ol>
G		<p><b>NOTICE!</b> Tie down point.</p>
H	<p>Voltage: 100-240 V~ Frequency: 50/60 Hz <b>Max. full-load current: 6 A</b> <b>SCCR:6kA</b></p>	<p>Electrical parameter label.</p>

## 4 LIFTING AND TRANSPORTING

### Lifting the Machine

This machine is heavy enough to cause injury if proper lifting techniques are not used. Observe the following guidelines when lifting the machine.

- Do not use the lifting point if there is no generator or counterweight installed on the equipment.
- Do not attempt to lift the equipment without assistance. Use appropriate lifting equipment such as slings, chain hooks, ramps, or hydraulic jacks.
- Ensure that lifting equipment is securely fastened and has sufficient weight-bearing capacity to safely lift or support the equipment..
- Remain aware of the location of other people nearby when lifting the machine.

## Transporte del equipo

Observe the following guidelines when transporting the machine to and from the job site.

- Drain the fuel tank before transporting the equipment.
- Ensure that the machine is securely strapped down in the transport vehicle to prevent it from sliding or tipping.
- Ensure that the mast is completely down.
- Do not refuel the machine in or on the transport vehicle. Move the machine to its operating location and then fill the fuel tank.

### 4.1 TIE-DOWN POINTS

The following illustration indicates the locations of this item on the machine:

- Tie-down points (a).



## 5 ASSEMBLY INSTRUCTIONS

### 5.1 PACKAGE CONTENTS

1. Parts for Mast.

Quantity		P/N	Description
6	Pieces	5000011422	Screw M12 x 35
6	Pieces	5000012468	Lock washer

2. Parts for Generator.

Quantity		P/N	Description
2	Pieces	5000011457	Screw M8 x 25
2	Pieces	5000011454	Screw M8 x 40
4	Pieces	5000010367	Lock nut M8
8	Pieces	5000010374	Lock washer Ø8,4

3. Parts for Stabilizer Lifting Weldment.

Quantity		P/N	Description
10	Pieces	5000011439	Screw M10 x 30
10	Pieces	5000010644	Lock washer Ø10,2

4. Parts for Foot Plate, Guide Plate, T-box.

Quantity		P/N	Description
1	Pieces	5000010365	Lock nut
4	Pieces	5000404307	Screw M4 x 10
1	Pieces	5000010666	Lock washer
1	Pieces	5000012364	Screw M8 x 20

5. Parts for Lamp.

Quantity		P/N	Description
4	Pieces	5000404305	Cup nut

### 5.2 PROCEDURE REQUIREMENTS

**Prepare the tools needed for assembling the machine**

1. Wrench – 13mm
2. Wrench – 17mm
3. Wrench – 19mm.
4. Wrench – 24mm.
5. Philips screw driver.
6. Fat blade screw driver.
7. Cutter.
8. Plier.

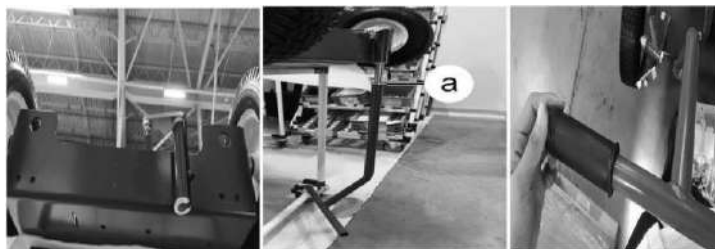


## Cart assembly

1. Remove the cart from the carton box.

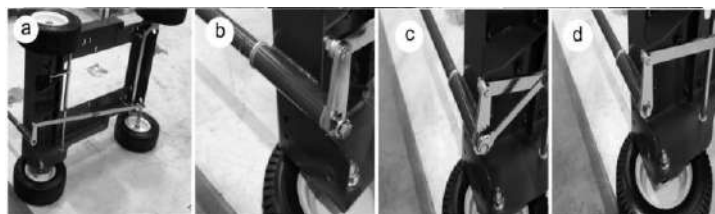


2. Install the handle bar to the cart. Insert the handle bar with washer (a) into the cart as shown below.



**Note:** Observe the orientation of the handle as it is installed into the cart.

3. Connect the axle and handle bar; secure with the lock washer and screw M8 X 20 from hardware parts (4).

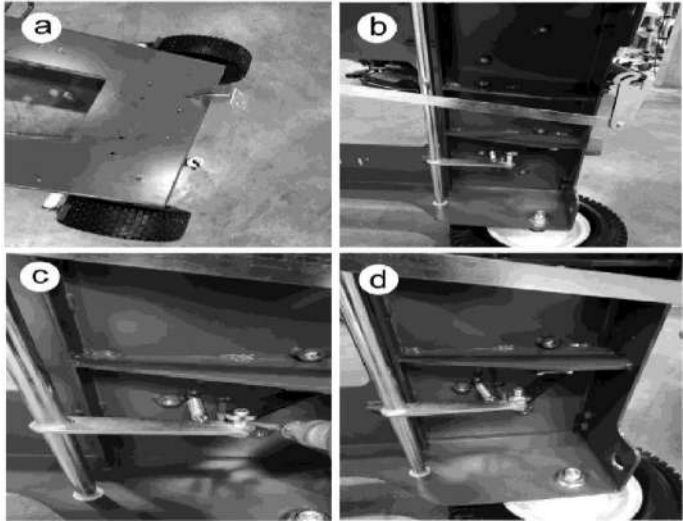


**Note:** (a) Flip the cart horizontally to have a better access to the axle bar.

(b) Apply Loctite 263.

(c) Tighten to a torque of 25Nm

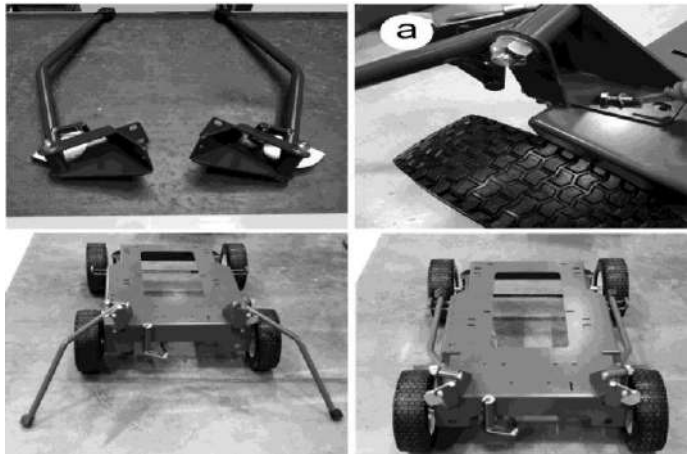
4. Install the foot plate and secure with lock nut from hardware parts (4).  
After installation, test the foot plate if it is properly installed.



**Note:** (a) Apply Loctite 263.

(b) Hand tight only. Leave small allowance between the nut and the foot plate to allow free movement.

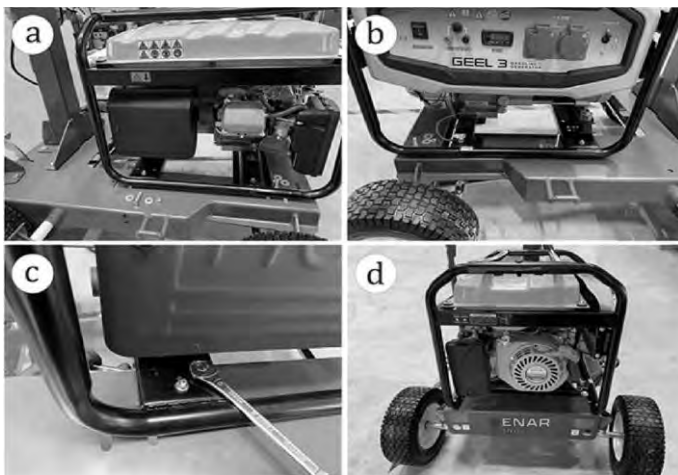
5. Prepare the stabilizers for installation. Secure it with 6 pieces of screws M10 X 30 and 6 pieces of washers D10.2 from hardware parts (3). Apply loctite 263 (a) and tighten with a torque of 47Nm.



## Installation of the Generator

**Note:** example for GEEL3.

1. Remove the generator from the carton box.
2. Install the generator to the cart. Secure the generator with 2 pieces of screws M8x25 and 2 pieces of screws M8x40 and 8 pieces of Lock Washer D8.4 and 4 pieces of nuts M8 from hardware parts (2). Ensure that the generator is in the center of the machine.

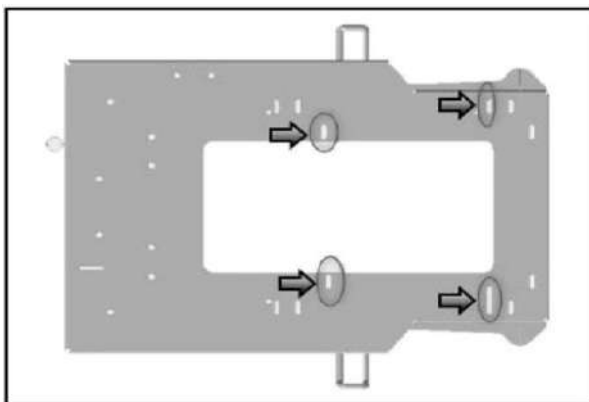


**Note:** (a) Top: Bolt and washer.

(b) Underneath: Nut and washer.

(d) The recoil is facing outside (for GEEL3 only).

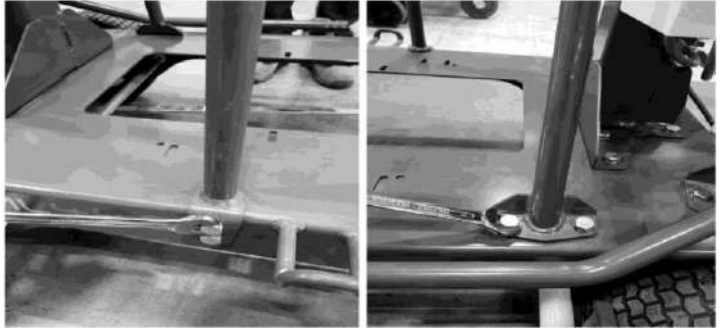
3. Position the generator to the cart.



**Note:** Refer to the arrow for the position of the generator for GEEL3.

## Installation of the Lifting Bracket

1. Install the lifting weldment. Secure it with 4 pieces of screws M10X30 and 4 pieces of Lock Washer D10. 2 from hardware parts (3). Apply locktite 263 and tighten to an approximate torque of 47Nm.



## Installation of the Mast Assembly

**Note:** Considering the safety factor, it is recommended that more than two people install together.

1. Remove mast and lamp head from the wooden box.

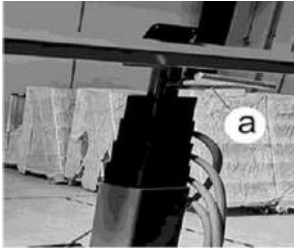


- Place the mast assembly on the top of the cart and prepare for assembly. Use 6 pieces of screws M12X35 and 6 pieces of washers from the hardware parts (1). Apply Loctite 263 (a) and tighten with a torque of 81 Nm.

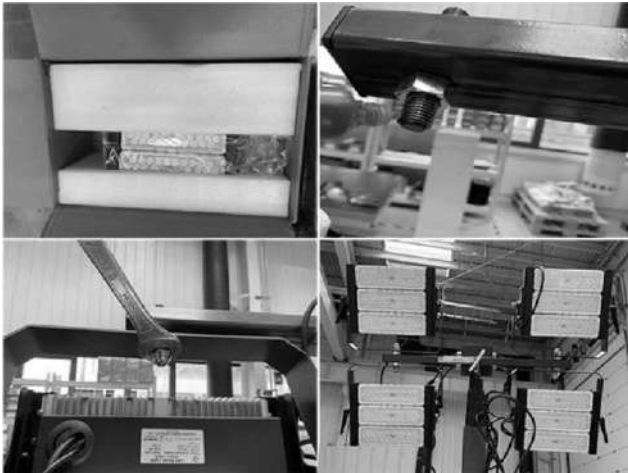


## Installation of the Lamps

- Install the lamp head assembly into the mast. Lock the lever (a) to prevent and limit the movement of the lamp head.



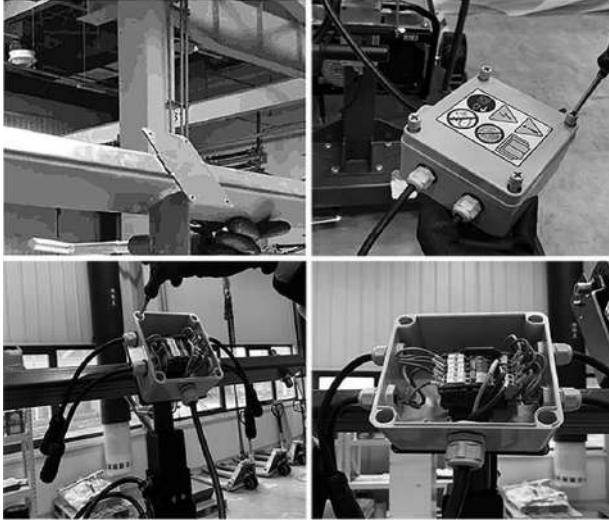
- Remove LED flood light from the carton. There are four lights in total, as shown below. Install the lamps into the lamp head using f pieces of nuts from the hardware parts (5).



**Note:** The fixed handrails should face outwards.

## Installation of the T-Box

1. Remove the cover of the T-Box. Install the t-box into the mast using 4 pieces of screws M4X10 from hardware parts (4).



2. Reinstall the T-Box cover.



3. Attach the lamp receptacles with the t-box.





## Others

1. Reverse the winch lever, tighten with a torque of 81Nm.



2. Plug and cable.



## 6 OPERATION

### 6.1 PREPARING THE MACHINE FOR FIRST USE

#### Procedure

Realice el procedimiento indicado a continuación para preparar el equipo.

1. Make sure all loose packaging materials have been removed from the machine.
2. Check the machine and its components for damage. If there is visible damage, do not operate the machine! Contact your ENAR dealer immediately for assistance.
3. Take inventory of all items included with the machine and verify that all loose components and fasteners are accounted for.
4. Attach component parts not already attached.
5. Move the machine to its operating location.

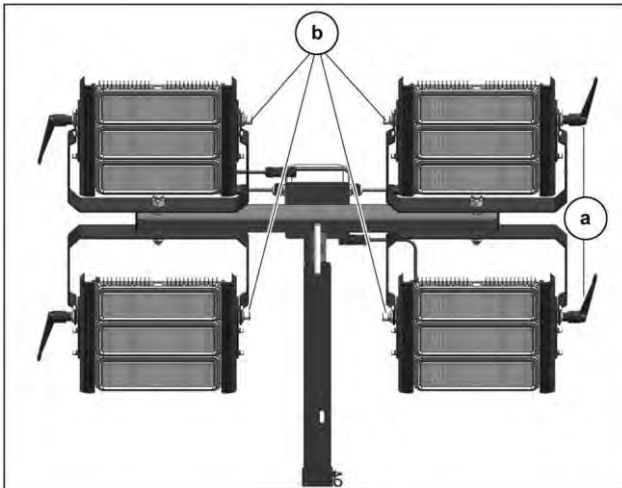
### 6.2 ADJUST THE LIGHTS

#### Overview

Each light fixture can be aimed up, down, left or right. Position each fixture by loosening toolless light adjusters **(a)** and aiming the light up or down. DO NOT loosen the inside nut **(b)**. Loosening this nut could cause damage to the light fixture. Light fixtures can be turned left and right without loosening any nut or adjusters. Tighten adjusters after positioning the lights..

#### Remember

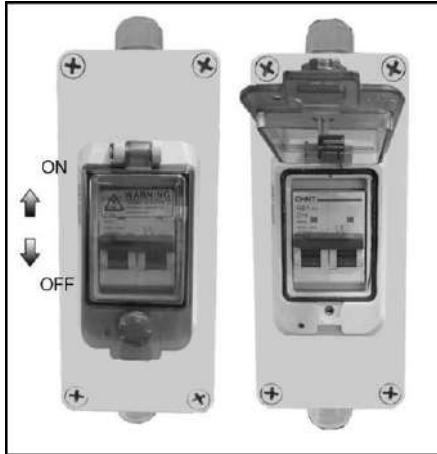
Always return the light fixtures to aim at the ground when transporting the machine.





### 6.3 OPERATING THE LIGHTS

The circuit breaker directly controls 4 LED lights. Switch the circuit breaker to "ON" position. LED lamp energizes instantly, switch the circuit breaker to "OFF" position. LED lamp de-energizes instantly.



### 6.4 RAISING THE TOWER (MANUAL WINCH SYSTEM)

#### Procedimiento

Perform the procedure below to raise the tower in manual winch system.

#### ¡WARNING!



**NEVER** raise the tower or operate the Light Tower in high winds. Make sure the generator or counterweight on the frame is within 50 - 85 kg range before operating the machine.

**NEVER** raise the tower while the generator is running.

**Do not** move the Light Tower while it is operating or mast is up.



#### WARNING!

**HIGH VOLTAGE! DO NOT** use the Light Tower if insulation on electrical cord is cut or worn through. Repair or replace the cord before using. Bare wires in contact with the metal frame of the trailer or tower can cause electrocution.



#### WARNING!

**NEVER** allow anyone to stand near the rear of the unit while raising the tower.

- ◆ The Light Tower includes a winch for raising and lowering the tower.

- ◆ The winch is an automatic brake-type that automatically brakes when the handle is released. The handle must be rotated to wind in the cable as well as to unwind the cable.

1. Check winch cables (a) for wear or damage, and make sure they are resting properly in pulleys. Do not use the Light Tower if either winch cable is damaged.
2. Secure the machine by engaging the wheel stopper (b) and deploying the stabilizers (c).

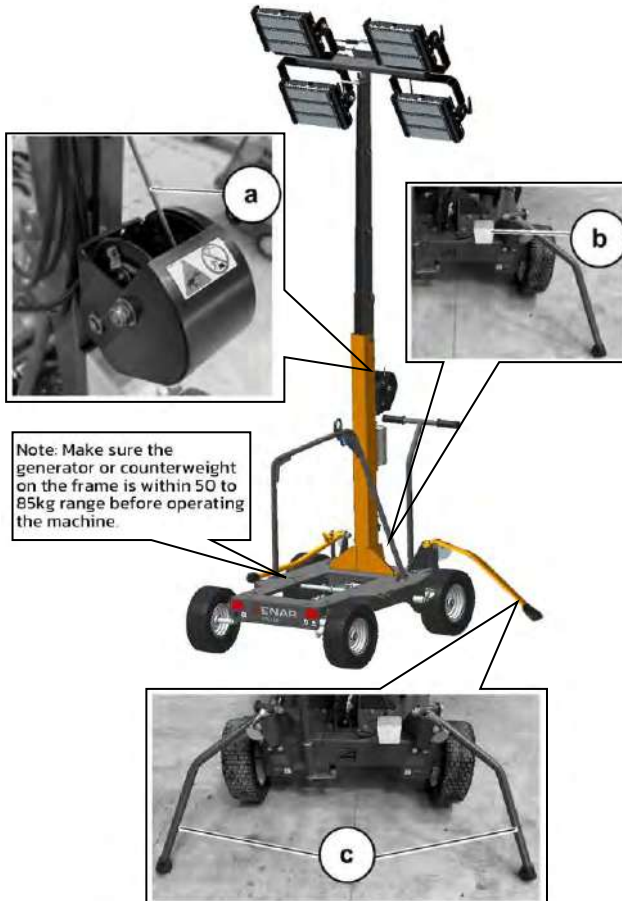


**WARNING!**

Pinching/crushing hazards. Moving parts can crush or cut extremities. Keep hands and fingers clear of pinch points when raising the tower.

**NOTICE:** While raising the tower, pay close attention to the coil cord and make sure that it does not tangle or become caught on any part of the machine.

3. Rotate the winch handle until tower is at the desired height. Do not over crank the winch when the tower is fully extended.



## 6.5 LOWERING THE TOWER (MANUAL WINCH SYSTEM)

### Procedure

Perform the procedure below to lower the tower in manual winch system.

---



#### **WARNING!**

If for any reason a part of the tower hangs up or a winch cable develops slack before tower is fully lowered, **stop immediately!** Continuing to turn the winch handle will increase the slack in the cable. Too much slack could cause the tower to collapse should it suddenly free up. If the tower hangs up, level the trailer. Contact an authorized ENAR service representative immediately.

---



#### **WARNING!**

**Never** lower the tower while the unit is operating.

---



#### **WARNING!**

**Never** allow anyone to stand near the rear of the unit while lowering the tower.

---

1. Turns he lights off.

**NOTICE:** Observe power cord while lowering the tower. Make sure the coiled cord is not damaged during the lowering process.

2. Lower the tower by turning the handle on the winch counterclockwise ("cable out" direction).
- 



#### **WARNING!**

**NEVER** disengage the wheel stopper (**b**) and undeploy the stabilizers while lowering the tower. Releasing the wheel stopper and stabilizers while the tower is being lowered may cause the machine to tip over.

---

3. Position the light fixtures to aim at the ground..

## 6.6 EMERGENCY SHUTDOWN PROCEDURE

### Procedure

If a breakdown or accident occurs while the machine is operating, follow the procedure below:

1. Press the emergency stop button (if equipped).
2. Disconnect tools.
3. Lower the tower.
4. Allow the machine to cool.
5. Contact the rental yard or machine owner for further instructions.

## 7 MAINTENANCE

### 7.1 PERIODIC MAINTENANCE SCHEDULE

The table below lists basic machine maintenance. Tasks designated with check marks may be performed by the operator. Tasks designated with square bullet points require special training and equipment.

	Before each use	Every 125 hours	Every 250 hours	Every 500 hours	Every 1000 hours or two years
Apply grease to the winch				•	
Apply grease to the mast				•	
Check the electrical cable insulation	•				

### 7.2 INSTALLING / REMOVING THE LIGHT FIXTURES



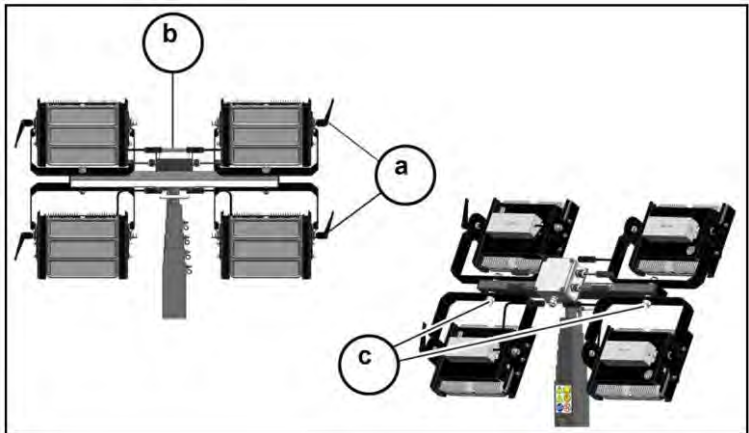
#### WARNING

- Always turn off light circuit breakers and shut down engine before disconnecting light fixtures or changing lamps.

Remove fixtures by disconnecting electrical cords at terminal box (b). Remove nuts (c) from fixture mounting brackets and remove both fixture and bracket off stud.

#### NOTICE:

- Only a trained technician should be allowed to install and remove fixture wiring.

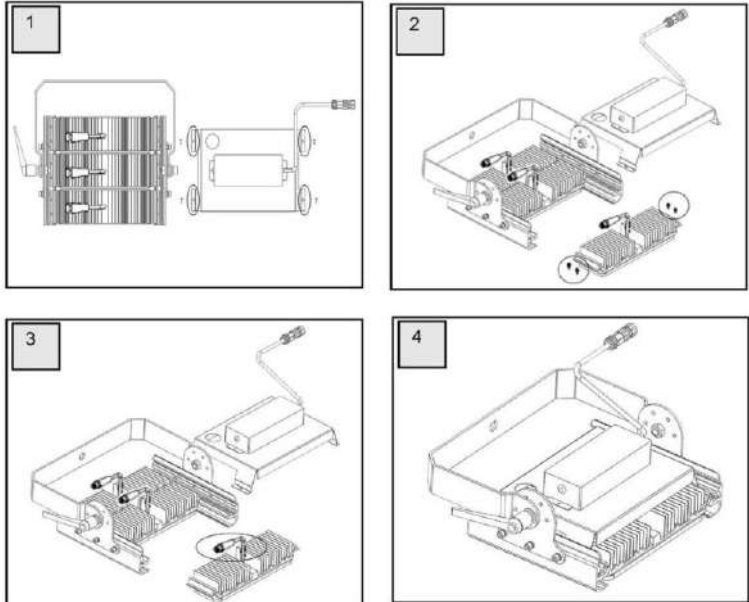


## 7.3 INSTALLATION AND MAINTENANCE THE LED MODULE

### Replacing LED module

The LED lamp has an average life of 50000 running hours. The LED should be replaced only if it does not get energized after service from a certified technician.

**NOTICE:** Lamps will last longer if used carefully.



1. Remove the screws to remove the side plates.
2. Undo the screws on ends of the module.
3. Disconnect the cable. Replace the module.
4. Connect the cable and tighten up the connectors. Fixate the new module with screws tightened up. Assemble the side plates with the screws.

## 7.4 DAILY INSPECTION

### Procedure

Perform the procedure below to inspect the machine.

1. Inspect condition of electrical cords. Do not use Light Tower if insulation is cut or worn through.
2. Check that winch cables are in good condition. Do not use a cable that is kinked or starting to unravel.

## 7.5 LONG TERM STORAGE

**Introduction** Extended storage of equipment requires preventative maintenance. Performing these steps helps to preserve machine components and ensures the machine will be ready for future use.

While not all of these steps necessarily apply to this machine, the basic procedures remain the same.

---

**When** Prepare your machine for extended storage if it will not be operated for 30 days or more.

---

**Procedure** Perform the procedure below to prepare your machine for storage.

1. Complete any needed repairs.
  2. Grease all fittings and, if applicable, repack bearings.
- 

**Procedure** Perform the procedure below to store your machine.

1. Move the machine to a clean, dry, secure storage location. Block or chock wheels to prevent machine movement.
2. Use touch-up paint as needed to protect exposed metal against rust.
3. If the machine has a battery, either remove or disconnect it.

**NOTICE:** Allowing the battery to freeze or completely discharge is likely to cause permanent damage. Periodically charge the battery while the machine is not in use. In cold climates, store and charge the battery indoors or in a warm location.

4. Cover the machine. Tires and other exposed rubber items should be protected from the weather. Either cover them or use a readily available protectant.

## 8 TROUBLESHOOTING



### WARNING!

**HIGH VOLTAGE!** This unit uses high voltage circuits capable of causing serious injury or death. Only a qualified electrician should troubleshoot or repair electrical problems occurring in this equipment.

PROBLEM / SYMPTON	REASON	REMEDY
LED module will not light	<ul style="list-style-type: none"> <li>■ Faulty LED module connection</li> <li>■ Fuel tank has no fuel.</li> <li>■ Plug connection at fixture is loose or damaged.</li> <li>■ LED module broken or burned out.</li> <li>■ Circuit breaker is turned off.</li> <li>■ Circuit breaker is loose or defective</li> <li>■ Generator output is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>■ Check that lamp connectors are tight and or not damaged.</li> <li>■ Check connections inside connection boxes on light fixtures and tower.</li> <li>■ Have a licensed electrician repair or replace the plug connection.</li> </ul> <p>Check for:</p> <ul style="list-style-type: none"> <li>■ Turn on circuit breaker.</li> <li>■ Have a licensed electrician repair or replace the circuit breaker.</li> <li>■ If voltage is incorrect, engine speed may need to be adjusted or generator may require service.</li> </ul>
Low light output	<ul style="list-style-type: none"> <li>■ LED module degraded</li> <li>■ Fixture or lens dirty</li> </ul>	<ul style="list-style-type: none"> <li>■ Replace LED module due to normal LED module life.</li> <li>■ Clean reflective surface inside fixture and outside surface of glass lens.</li> </ul>

## 9 TECHNICAL DATA

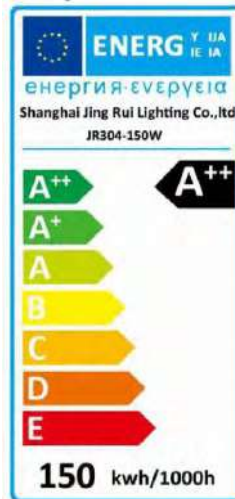
### 9.1 MACHINE

MACHINE		STELLA
<b>MACHINE</b>		
<b>Max. mast height</b>	m (ft)	5 (16)
<b>Lamp type</b>		LED Flood Light
<b>Number of lamps</b>		4
<b>Each lamp wattage</b>	W	150
<b>Dry weight</b>	Kg (lbs.)	123 (271)
<b>Voltage</b>	V	100 ~ 240
<b>Frequency</b>	Hz	50 / 60
<b>Operating temperature</b>	°C	-5 ~ +40

### 9.2 LED LAMP

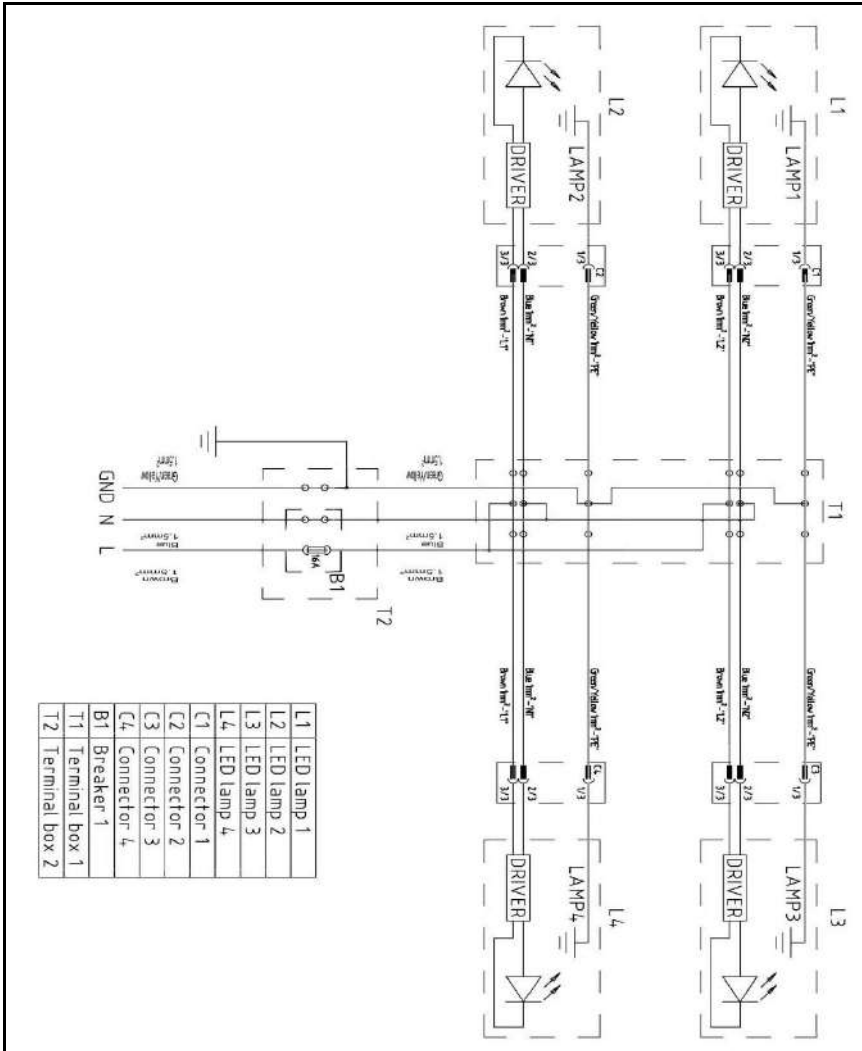
The energy efficiency class of this lamp is A<sup>++</sup>(according to 1194/2012/EU).

Supplier's name	Shanghai Jing Rui Lighting Co.,Ltd
Supplier's model	JR304-150W
Energy efficiency class	A <sup>++</sup>
weighted energy consumption(E <sub>c</sub> )	150 kWh/1000 h





## 10 ELECTRICAL SCHEMATIC



## 11 DIMENSIONS



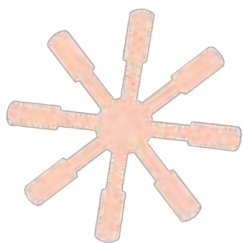


PARA REALIZAR CUALQUIER CONSULTA SOBRE LOS DESPIECES Y LISTAS DE PIEZAS DE NUESTRAS MÁQUINAS CONSULTE NUESTRA PÁGINA WEB.

FOR ANY REQUIREMENT ABOUT THE PART LIST OF OUR MACHINES CONSULT OUR WEB PAGE.

[www.enargroup.com](http://www.enargroup.com)





**ENARCO**

**ENARCO, S.A.**

C/ Burtina, 16  
Plataforma Logística PLAZA  
50197 ZARAGOZA

**Tfno.** (34) 976 464 090  
(34) 976 464 091  
**Fax** (34) 976 471 470

**e-mail:** [enar@enar.es](mailto:enar@enar.es)  
**Web:** <http://www.enargroup.com>