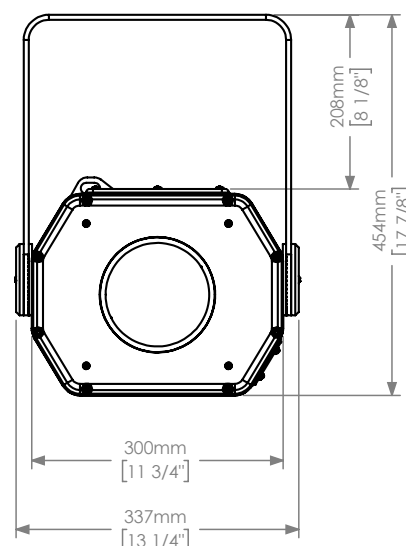
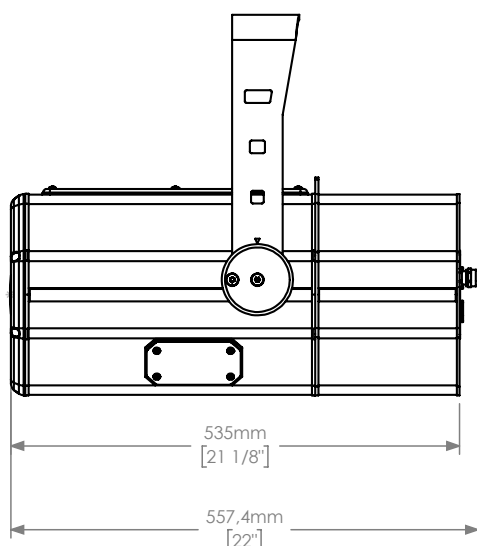


Power consumption	550 W Max (LED+ motors + Heater) * - 360 W (LED + motors only)
Nominal current	2.5 A Max (LED+ motors + Heater) * - 1.6 A (LED + motors only)
Power supply	100 - 240 VAC 50/60Hz
Inrush current	35 A @ 230 VAC, cold start, 1800 µs.
Power factor	cos.φ= 0.95
Electrical class	I
Weight	30 Kg
Operating temperature	-30°C to +50°C ( -22°F to 122°F )
IP rating	IP66
IK rating	IK07
Housing	Steel/alluminium, scratch resistant paint
Thermal protection	Integrated electronic thermal protection management
Power Cable	1.5 m
Control	USITT DMX-512, RDM
Channels	14
Source & colors	1 high output LED 8000K, 8 colours+ white wheel
Gobos	7 rotating gobos (ø27/22 mm) wheel + 4 fixed gobos plus effect wheel
Other features	2 prisms, linear 0-100% dimmer, strobe function (27.7 fps max), pulse and zap effect, electronic blackout, motorized electronic focus, motorized linear zoom

\* Please refer to “Heating and cooling system notice” chapter.

## Dimensions



## Important notices

- This product must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the operation of the product and the hazards involved. Failure to comply with the following installation instructions may result in death or serious injury. Questo prodotto deve essere installato secondo le normative locali, da personale specializzato. La mancata osservanza delle istruzioni di installazione portare a situazioni di pericolo all'incolumità della persone.

- Do not stare at the operating light source.  
Non fissare la sorgente luminosa durante il suo funzionamento.

- The fixture might be damaged by excess voltage. The installation of an overvoltage protection device on the electrical system (SPD) is recommended to reduce the risk of damage.

Apparecchiatura sensibile alle sovratensioni. Si consiglia l'installazione di un dispositivo di protezione delle sovratensioni (SPD) sull'impianto elettrico per attenuare l'intensità di questi fenomeni proteggendo gli apparecchi dal rischio che vengano danneggiati.

- The use of an adequate magnetothermic switch along the power supply line is recommended.  
E' consigliato l'uso di un adeguato interruttore magnetotermico/differenziale sulla linea di alimentazione.

- Connect the fixtures to each other only when disconnected from mains.  
Collegare tra loro i proiettori solo quando nessuno di essi è collegato alla rete elettrica.

- Never leave cables and connectors unconnected or unprotected for long periods.  
Non lasciare mai per lungo tempo agli agenti atmosferici cavi e connettori non collegati o non protetti.

- Disconnect power before installing or servicing to avoid electrical shock.  
Togliere l'alimentazione prima di effettuare qualsiasi operazione all'interno dell'apparecchiatura.

- Disconnect power before any connection operation.  
Togliere l'alimentazione prima di effettuare qualsiasi operazione di connessione tra gli apparecchi.

- Check voltage and frequency before powering the fixture. Do not exceed fixture specified voltage.  
Prima di connettere l'apparecchio alla rete elettrica, verificate la compatibilità di tensione e frequenza.

- Do not handle the unit with wet hands or in wet environments.  
Non maneggiare il prodotto con mani bagnate o in presenza di acqua.

- Apply to qualified staff for any maintenance service not described in this instructions manual.  
Rivolgersi ad un tecnico qualificato per qualsiasi operazione di manutenzione ordinaria non descritta nel presente manuale.

- Do not exceed the maximum quantity of fixtures per line in order to avoid power surges.  
Non superare il numero massimo specificato di apparecchi per linea per evitare pericoli sovraccarichi di corrente.

- Before powering the unit, ensure to use cables and connectors with proper section and length, according to its power consumption.  
Prima di effettuare le connessioni verificare la portata dei cavi / connettori e la lunghezza dei cavi tenendo conto dell'assorbimento del prodotto.

- Fix the projector by using screws, hooks or other adequate supports that can bear its weight.  
Fissare il proiettore con viti, ganci o altri supporti in grado di sostenerne il peso.



**CAUTION: Prolonged staring at LED source should be avoided by placing the fixture in a proper position.**



**WARNING ! fixing and connecting operations must mandatorily be carried out by qualified personnel only !**

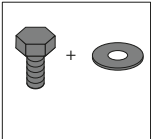
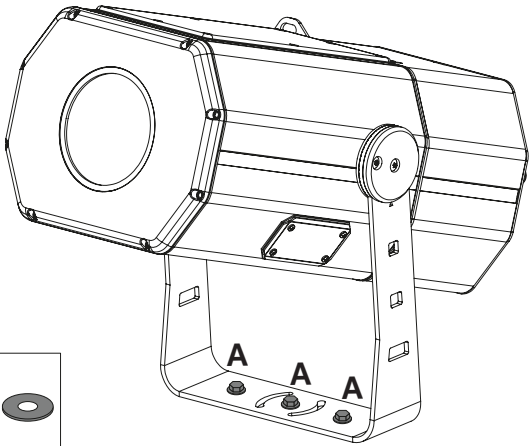


**WARNING ! Ensure power supply is off before connecting or disconnecting fixtures !**

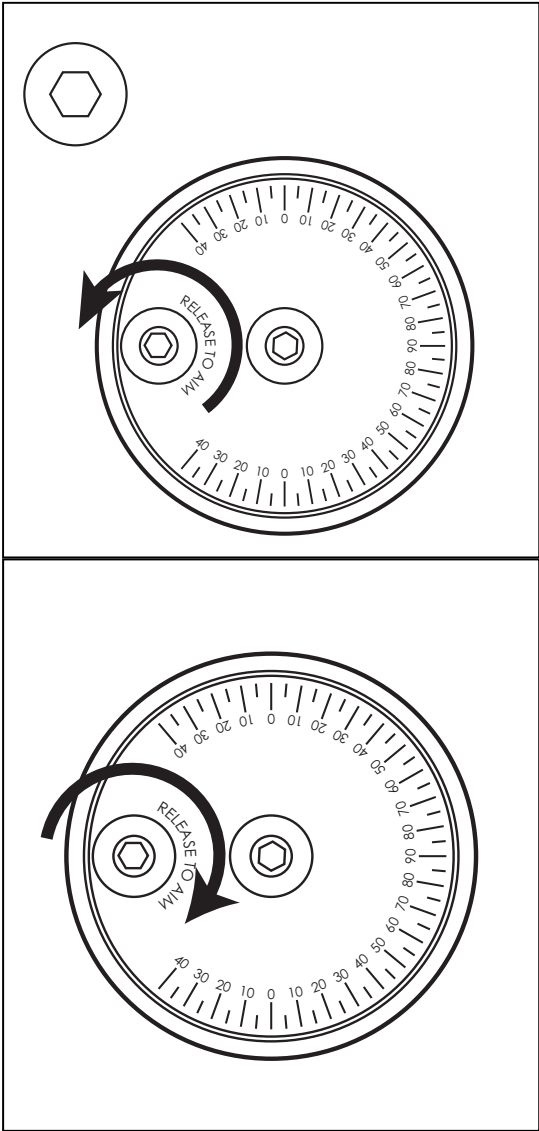
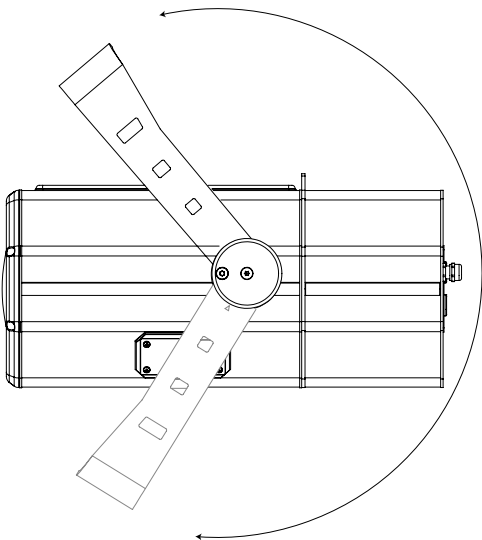
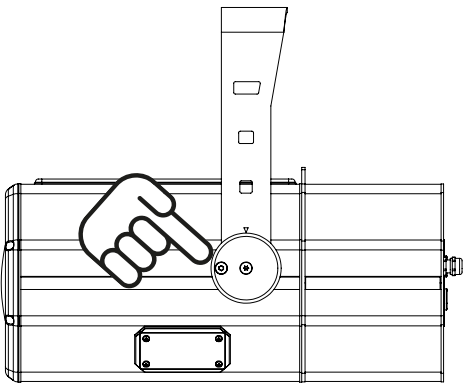
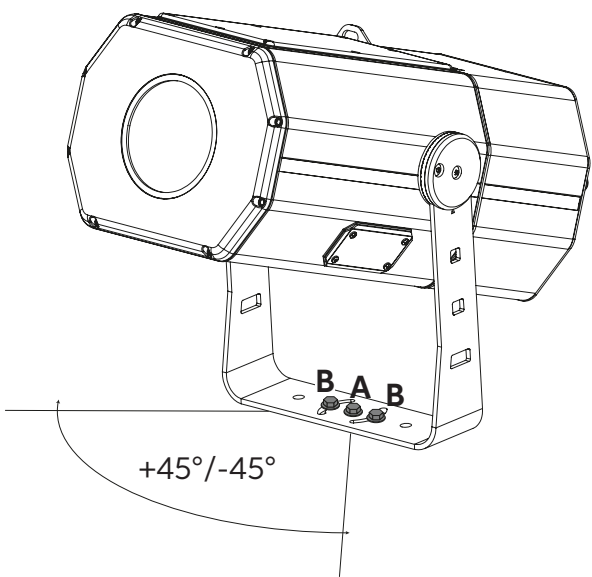


**CAUTION: The fixture has a heavy weight. It is suggested to handle it by two persons.**

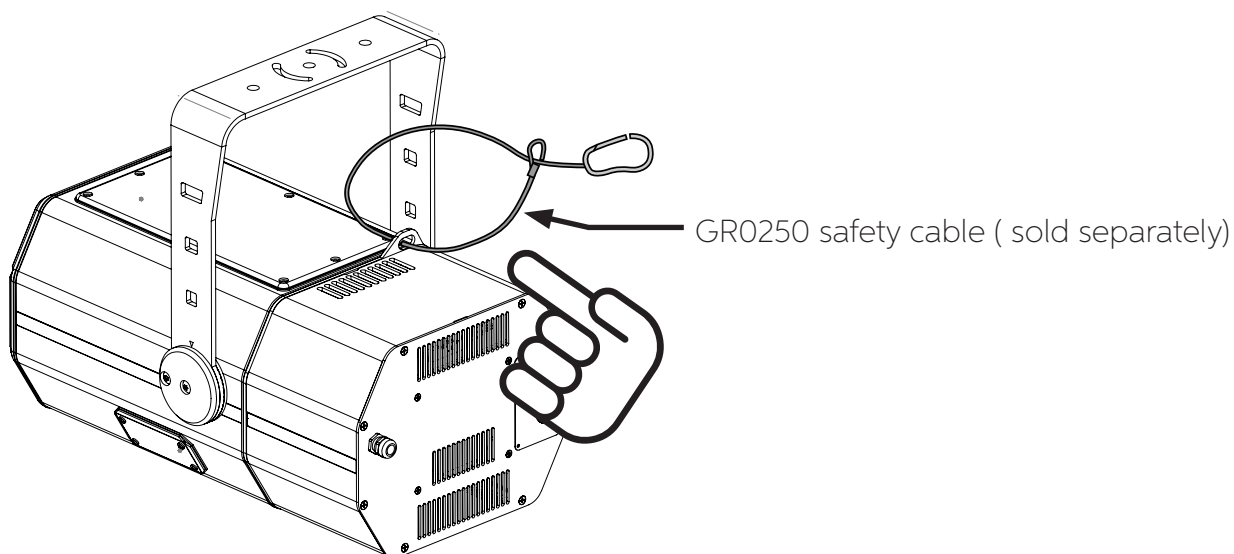
Installation



A= M12 screw  
B=M8 screw

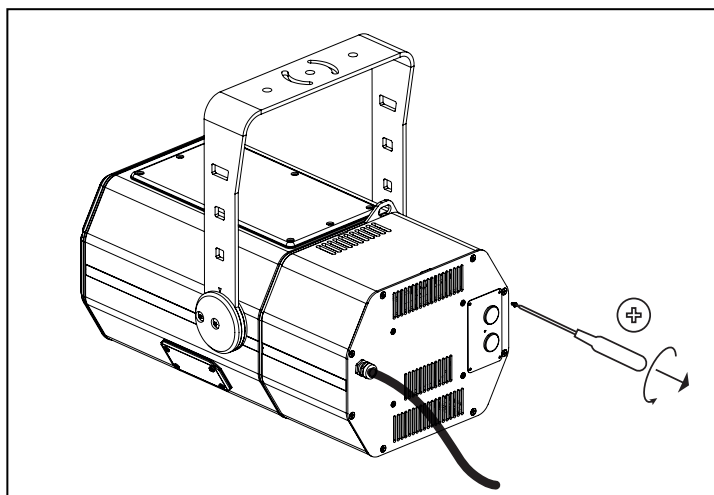


CAUTION: prolonged staring at the LED source should be avoided by placing the fixture in a proper position.

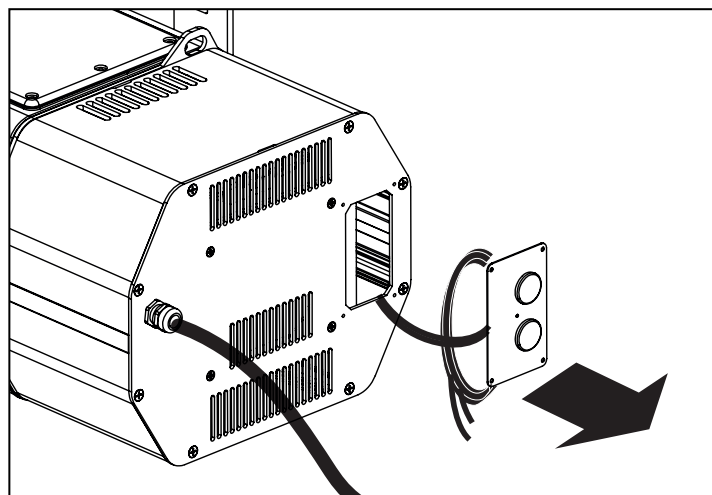


## Preliminary operations

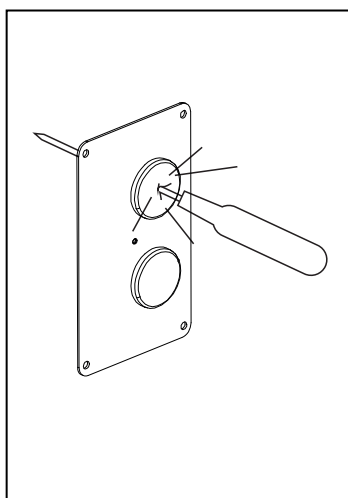
In order to connect the unit to a DMX controller, pull out the input and output DMX cables from the back of the fixture. Follow the below reported instructions.



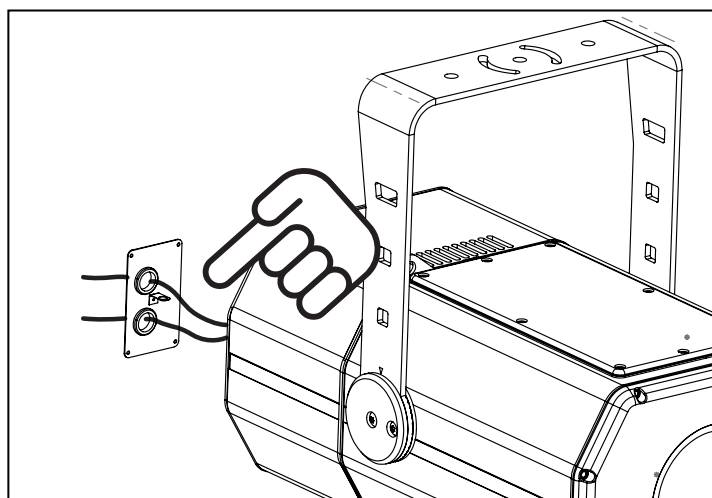
Undo the 4 screws of the metal cover.



Remove the cover and pull the cables out.

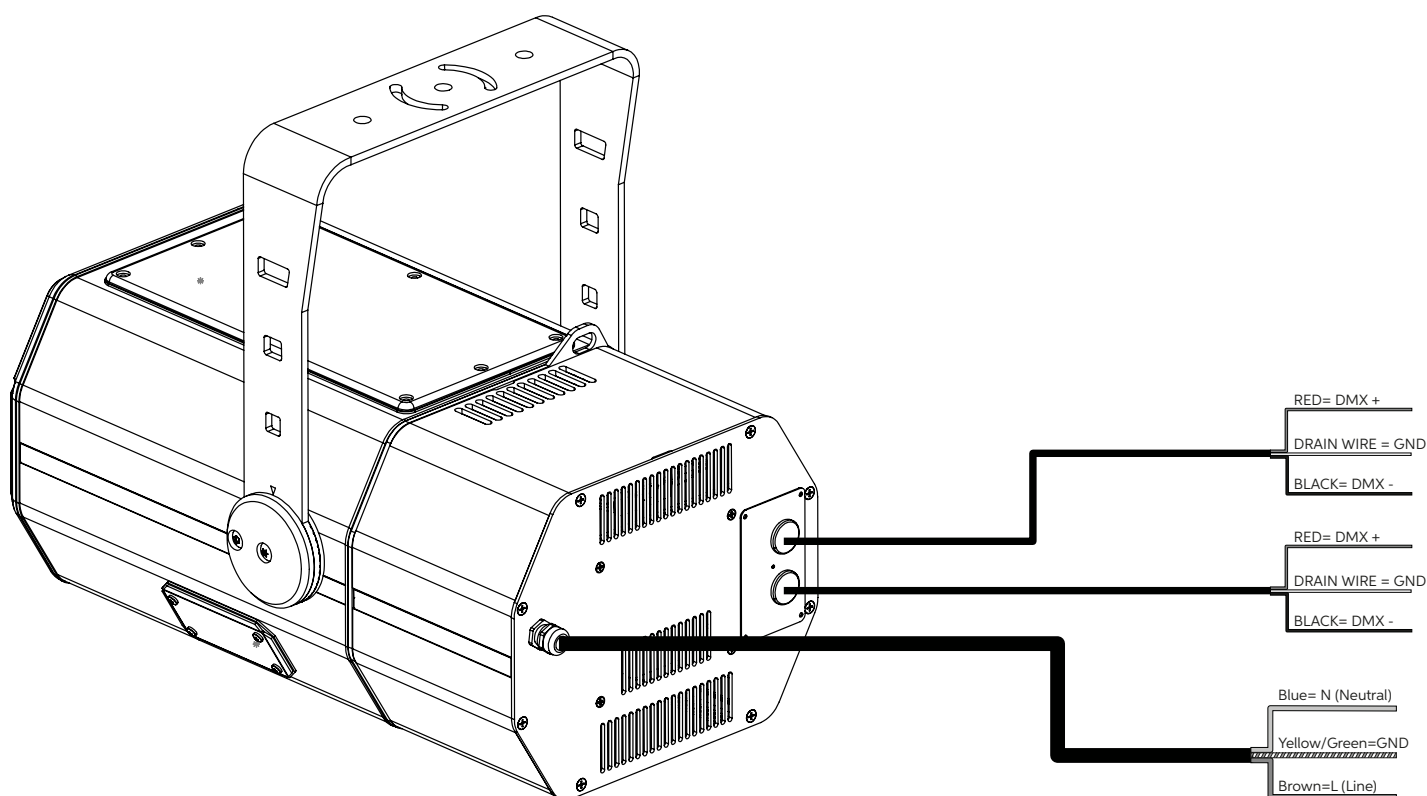


Bring the cables and pierce the two rubber seals with a screwdriver.



Run the cables through the holes, then fix the metal cover in place.

## Connection



### ATTENZIONE - WARNING

ITA: I collegamenti dei cavi di tipo "S" ed "M" devono essere effettuati utilizzando il kit di collegamento **da ordinare separatamente**. Seguire le istruzioni fornite insieme al kit di connessione.

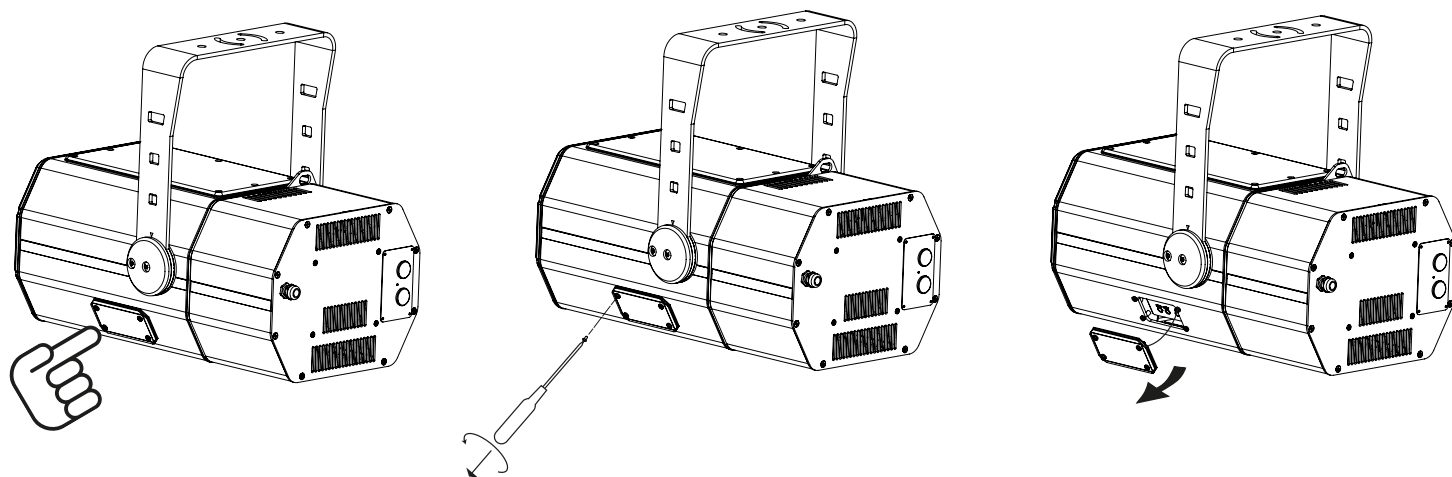
EN: The connections of the cables type "S" and "M" must be made using the connection kit **to be ordered separately**. Follow the instructions provided with the connection kit.



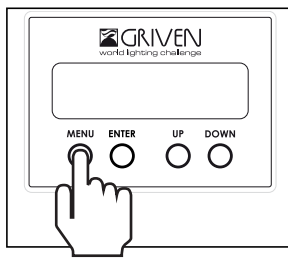
**WARNING ! Fixing and connecting operations must mandatorily be carried out by qualified personnel only !**

**WARNING ! Make sure that power supply is off before connecting or disconnecting fixtures !**

## Control panel operations



In order to access the control panel of the fixture undo the four screws as shown in the picture. After performing the operation required, close the cover by tightening the screws.



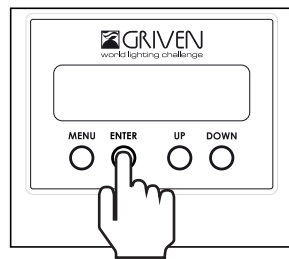
MENU button functions:

Navigation mode:

- access the menu
- exit the menu

Edit mode:

- exit without modifications



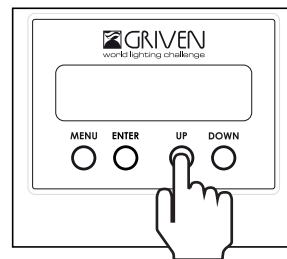
ENTER button functions:

Navigation mode:

- access sub-menu

Edit mode:

- confirm modification



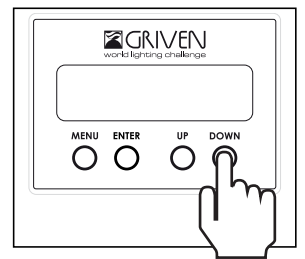
UP button functions:

Navigation mode:

- scroll up the menu

Edit mode:

- increase the selected value



DOWN button functions:

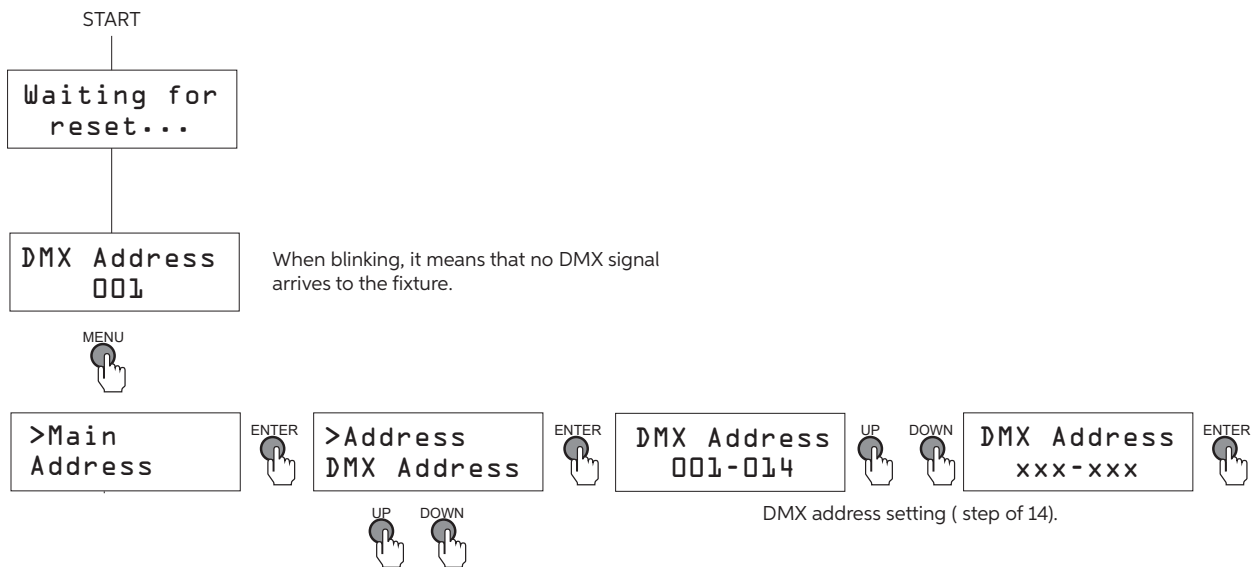
Navigation mode:

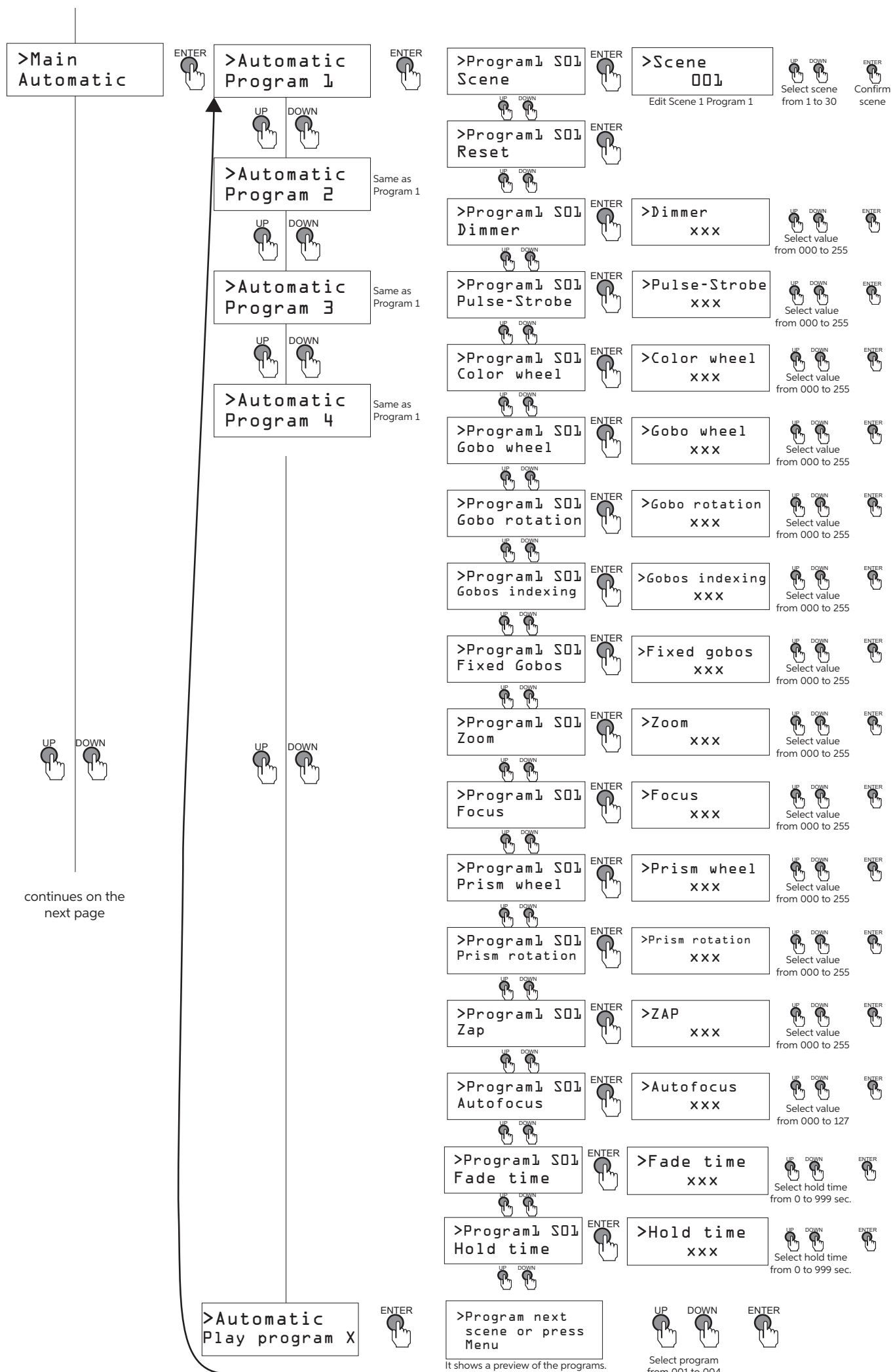
- scroll down the menu

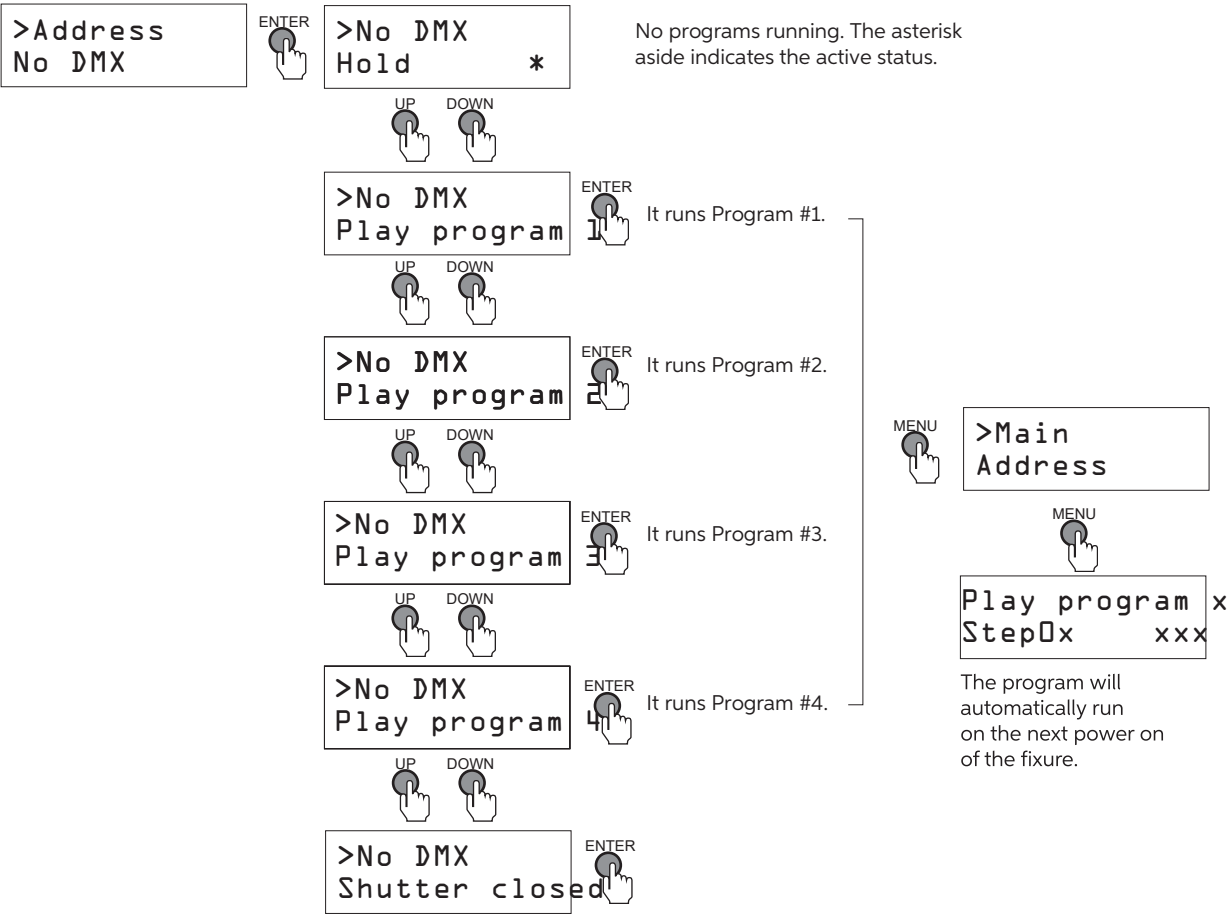
Edit mode:

- decrease the selected value

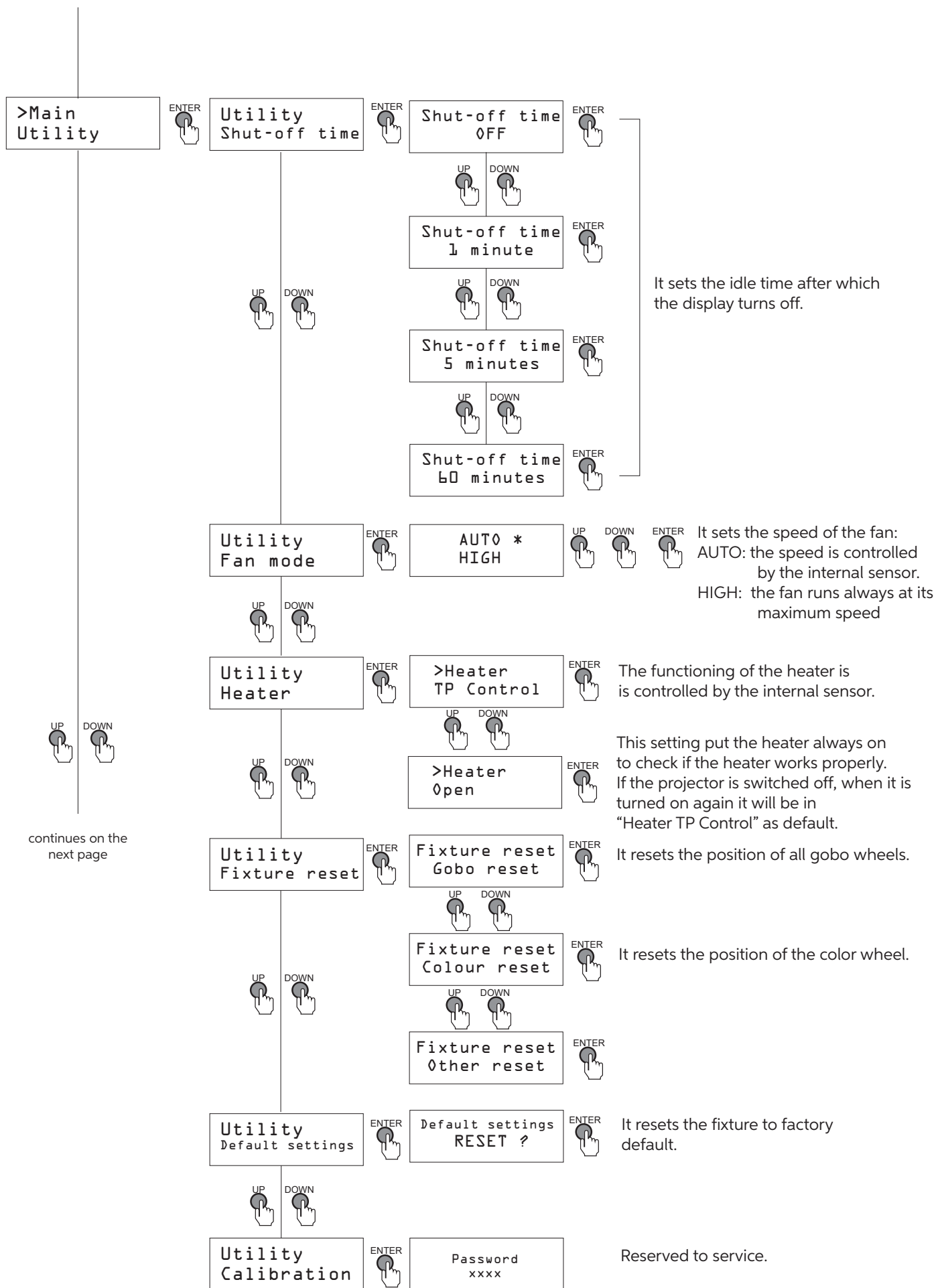
## Menu explanation

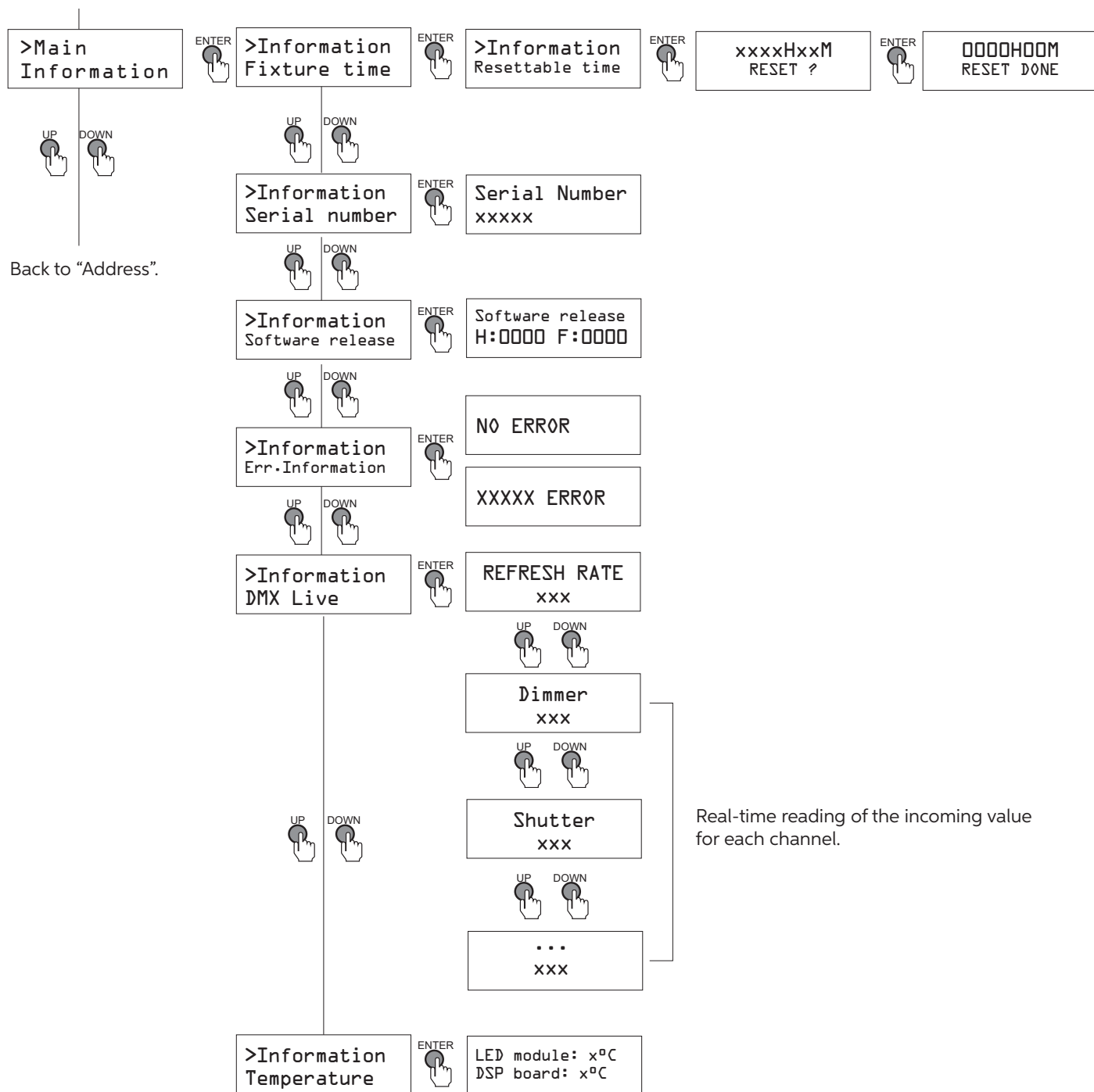












## Trouble shooting

CODE #	ERRO INFO	CHECK MEASURMENT	NOTE
E001	Spi Err	Check the welding of memory IC	RESET ERROR
E002	Prg Err	Upgrade again	
E003	BD1 Err	Check main cable ABAB ( 485 ) chip	
E004	BD2 Err		
E005	BD3 Err		
E006	P1 Err	Check cable of sensor, distance and location of ,magnets and sensor	
E007	P2 Err		
E008	Focus Err		
E009	Zoom Err		
E010	STGobo Err		
E011	Colour Err		
E012	Rgc Err		
E013	Rt Err		

## DMX Chart

Chn.I	Function	Values	
1	DIMMING LED	0~5	Led off
		6~240	Proportional dimming (Min. to Max.)
		241~255	Led On
2	PULSE AND STROBE	0~5	No effect
		6~10	Reset ( wait 5 seconds to activate )
		11~20	Pulse up 1 (slow)
		21~30	Pulse up 2
		31~40	Pulse up 3
		41~50	Pulse up 4
		51~60	Pulse up 5
		61~70	Pulse up 6
		71~80	Pulse up 7 (fast)
		81~90	Led Off
		91~100	Pulse down 1 (slow)
		101~110	Pulse down 2
		111~120	Pulse down 3
		121~130	Pulse down 4
		131~140	Pulse down 5
		141~150	Pulse down 6
		151~160	Pulse down 7 (fast)
		161~170	Led Off
		171~180	Strobe 1 (slow)
		181~190	Strobe 2
		191~200	Strobe 3
		201~210	Strobe 4
		211~220	Strobe 5
		221~230	Strobe 6
		231~240	Strobe 7 (fast)
		241~255	No effect
3	COLOR WHEEL	0~2	White
		3~12	White + Red
		13~17	Red
		18~26	Red + Blue
		27~31	Blue
		32~40	Blue + Yellow
		41~45	Yellow
		46~54	Green + Yellow
		55~59	Green
		60~78	Green + Pink

Chn.I	Function	Values	
		69~73	Pink
		74~82	Pink + Orange
		83~87	Orange
		88~96	Orange + CTO
		97~101	CTO
		102~110	CTO + UV
		111~115	UV
		116~125	UV + White
		126~132	White
		133~183	Proportional clockwise rotation
		184~194	White
		195~244	Proportional counterclockwise rotation
		245~255	White
4	GOBO ROTATION WHEEL SELECTION	0~15	Open
		16~30	Gobo 1
		31~45	Gobo 2
		46~60	Gobo 3
		61~75	Gobo 4
		76~90	Gobo 5
		91~105	Gobo 6
		106~120	Gobo 7
		121~180	Proportional clockwise rotation of the wheel (Min. to Max.)
		181~190	Open
		191~250	Proportional counterclockwise rotation of the wheel (Max. to Min.)
		251~255	Open
5	GOBOS ROTATION	0~15	No effect
		16~130	Proportional clockwise control of the rotation (Min. to max.)
		131~140	No effect
		141~255	Proportional counterclockwise control of the rotation (Max. to min.)
6	GOBOS INDEXING	0~7	No effect
		8~248	360° gobo indexing
		249~255	No effect
7	GOBOS FINE INDEXING	0~255	Proportional fine gobo indexing
8	FIXED GOBO WHEEL	0~10	Open
		11~20	Gobo 1
		21~30	Gobo 2

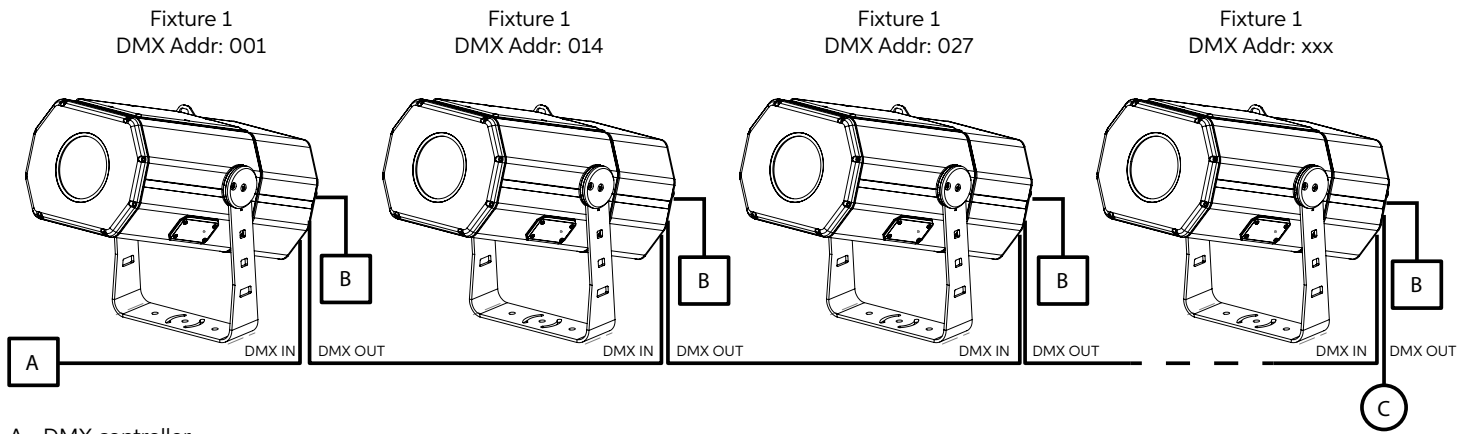
Chn.I	Function	Values	
		31~40	Gobo 3
		41~50	Gobo 4
		51~100	Proportional clockwise and anti-clockwise rotation, with different speed, one way till end and return to beginning.
		101~160	Proportional clockwise rotation of the wheel (Max. to min.)
		161~170	Open
		171~230	Proportional counterclockwise rotation of the wheel (Min. to max.)
		231~255	Open
9	ZOOM	0~255	Proportional linear position
10	FOCUS	0~255	Proportional linear position
11	PRISM WHEEL SELECTION	0~51	Open
		52~102	Prism 1
		103~153	Prism 2
		154~255	Open
12	PRISM ROTATION	0~15	No effect
		16~130	Proportional clockwise control of the rotation (Min. to Max.)
		131~140	No effect
		141~255	Proportional counterclockwise control of the rotation (Max. to Min.)
13	ZAP (blackout during motor positioning )	0~10	No effect
		11~60	Zap: slow closing, slow opening
		61~70	No effect
		71~120	Zap: slow closing, fast opening
		121~130	No effect
		131~180	Zap: fast closing, slow opening
		181~190	No effect
		191~240	Zap: fast closing, fast opening
		241~255	No effect
14	AUTOFOCUS (priority and distan- ce selection)	0~27	Disable zoom/focus linking - 1 sec.
		28~52	Enable zoom/focus linking, near distance (5meters)( default setting )-1 sec
		53~77	Enable zoom/focus linking, near distance (6meters)( default setting )-1 sec
		78~102	Enable zoom/focus linking, medium distance (8meters) - 1 sec
		103~127	Enable zoom/focus linking, far distance (12meters) - 1 sec
		128~255	No effect

#### RDM functions

When operating in DMX mode the fixture can accept the following RDM commands:

- discovery: Upon request of the RDM controller, the fixture signals its own presence (the RDM controller will display the fixture on a list).
- DMX address reading and setting.
- Channels number reading and setting.
- On / Off identification: This command is used to identify the fixture you want to get access to (the identification happens by switching on all the LEDs at full intensity).
- Manufacturer: it displays the name of the manufacturer (Griven).
- Model description: it displays the fixture's model.
- Software version description: it displays the current version of the firmware.
- Temperature: it displays the LEDs operating temperature value.

Configuration example



A= DMX controller  
B= 100-240 VAC 50/60 Hz  
C= 120  $\Omega$  DMX Terminator

\*DMX cable type: 2x0.34 mmq impedance 110 $\Omega$ , capacity 43pF/m, resistance 50 $\Omega$ /Km.

**WARNING !** Use a DMX repeater on each 32nd fixture of the daisy-chain or in case the total DMX cable lenght exceeds 300m ( 1000 ft.). Install a data terminator ( 120 $\Omega$ ) on the DMX out cable of the last unit of the daisy-chain as described in the DMX connection kit manual.

**WARNING!**  
Being a mechanical equipment, it could possibly have a variation in the holographic reproduction of about 10cm (0.33 ft) on 3000cm (98.40 ft)

Heating and cooling system notice

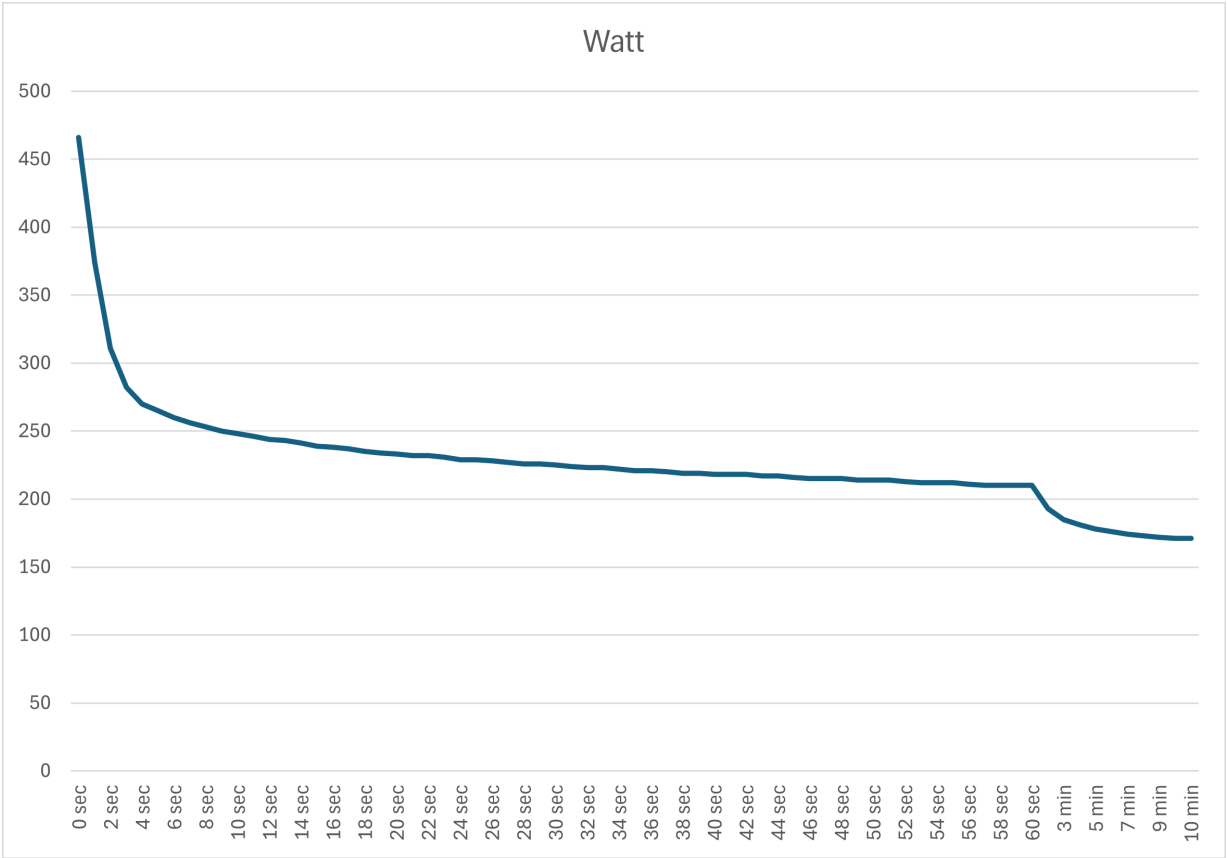
GoboLED 500 is provided with a smart heating/cooling system that allows operation also in very extreme ambient temperatures between -30°C to 50°C (-40°F to 122°F).  
When the ambient temperature is below 5°C, the internal heater brings the temperature to optimal values for the internal mechanical components (belts and motors).  
The projector will not turn on until it has reached a suitable operating temperature.  
When powered on at very low temperatures, the unit takes some time to reach the optimal internal temperature and to allow safe operations.  
Refer to the following table to calculate the startup time and power used after startup.

Temperature	Heatin process duration (minutes)	Power consumption after heating is complete (W)
-10°C	45	360
-20°C	60	360
-30°C	120	550*

**\* Note that at -30°C the power consumption is 550W. This is because the heat generated by the LED light source is not sufficient to maintain the projector operating temperature. Thus, both the LED and the heater operate simultaneously.**

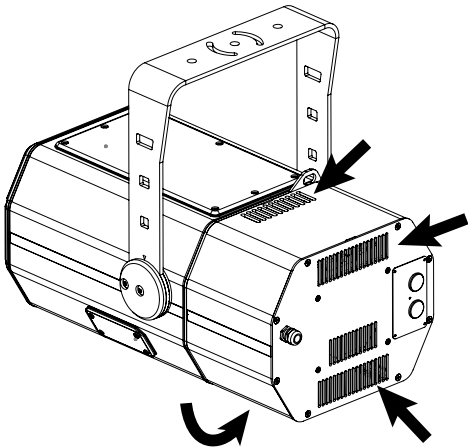
The power consumption during heating varies depending on the outside temperature, but after an initial peak (lasting a few seconds), it averages around 200W.

The following graph shows the absorption curve during the heating process.



When necessary, the cooling fan may start and stop automatically as a consequence of the internal electronic thermal management system that prevents the LED from overheating.

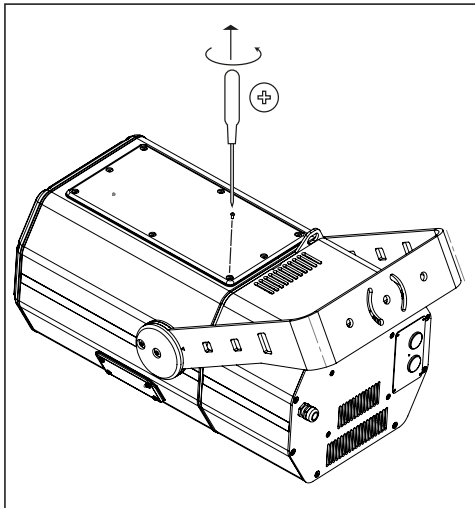
 **WARNING ! Do not cover or obstruct any of the ventilation grid placed on the fixture. It is highly recommended regularly to inspect and clean these grids. The obstruction of the grids can seriously compromise the proper operation of the unit.**



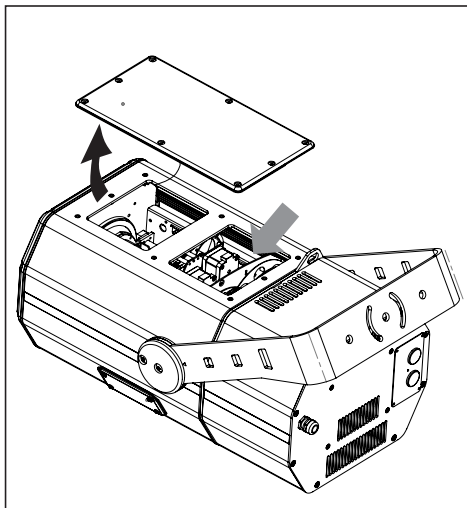
## Gobos replacing ( rotating gobo wheel )



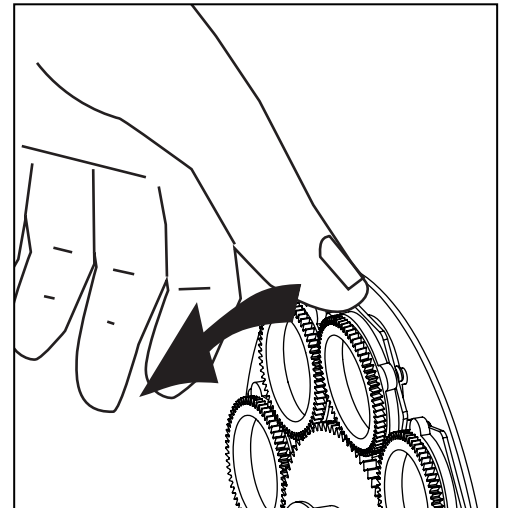
**WARNING ! Disconnect the unit from mains supply prior to servicing.**



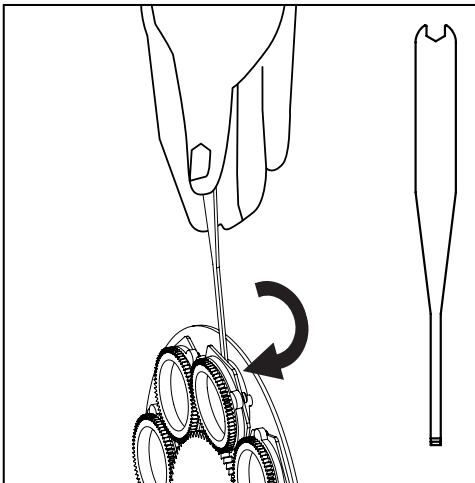
Undo the six screws to remove the cover.



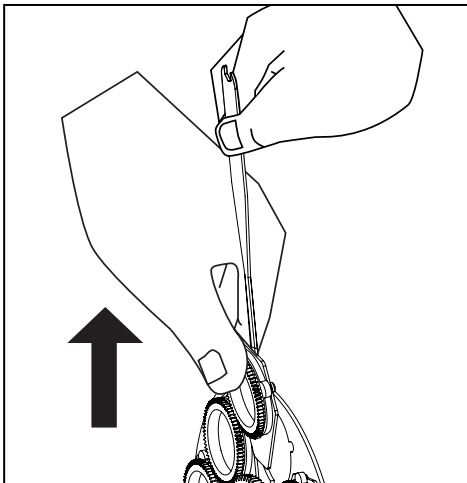
Locate the rotating gobo wheel.



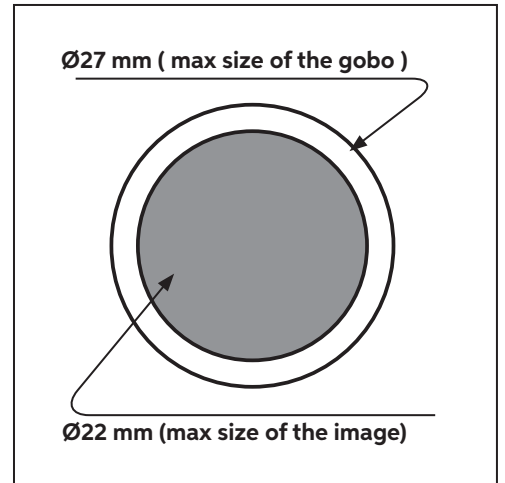
Lift the desired gobo holder.



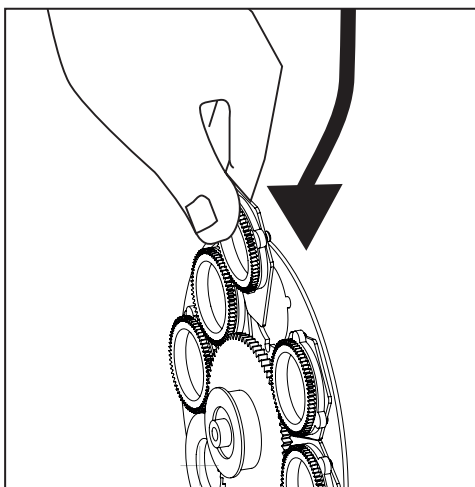
Put the tool provided along with the unit under the gobo holder as shown above.



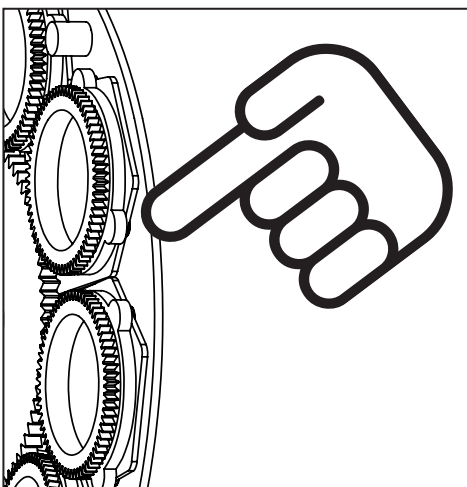
Pull out the gobo holder.



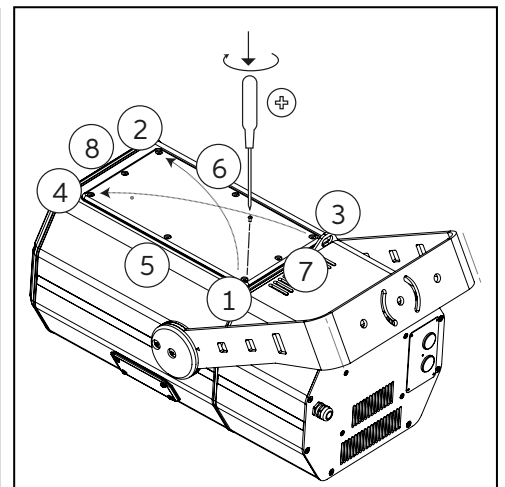
Gobo Led 500's gobos must comply with the above reported sizes.



Put the new gobo in its slot, make sure that its flat side goes under the spring beneath the cog wheel.



The gobo holder must perfectly fit in its slot.



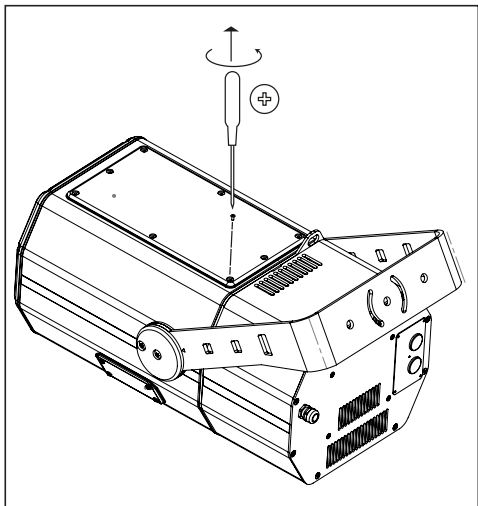
At the end of the operations, close the cover by well cross-tightening the screws.



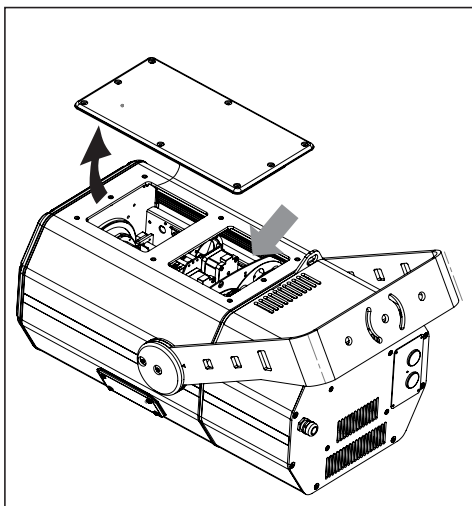
## Fixed gobo wheel replacing



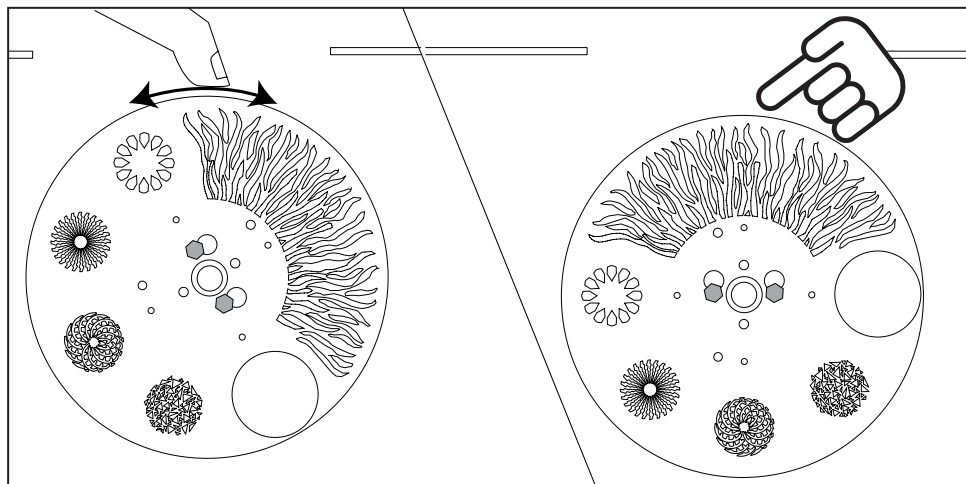
**WARNING ! Disconnect the unit from mains supply prior to servicing.**



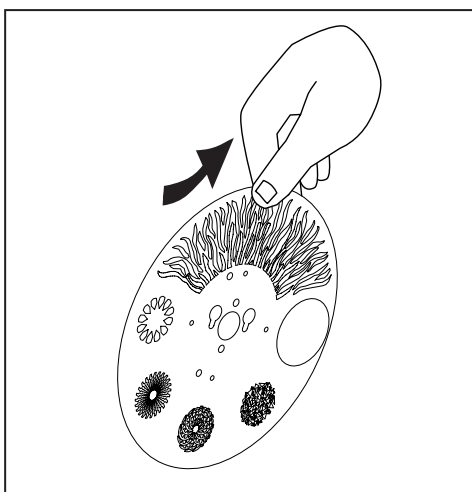
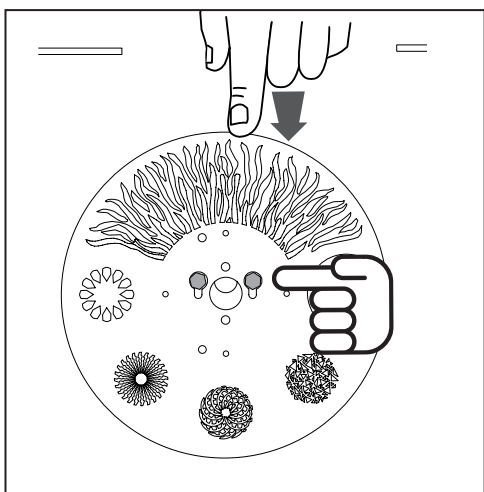
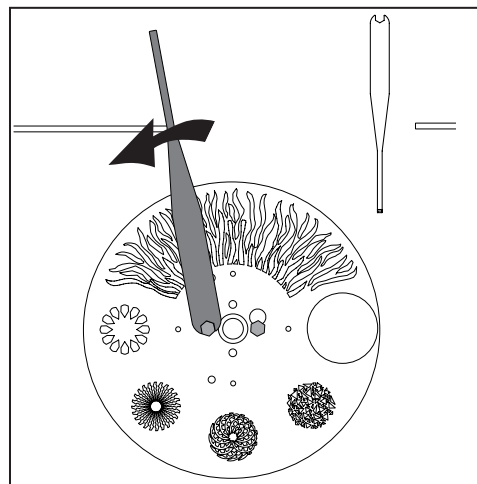
Undo the six screws to remove the cover.



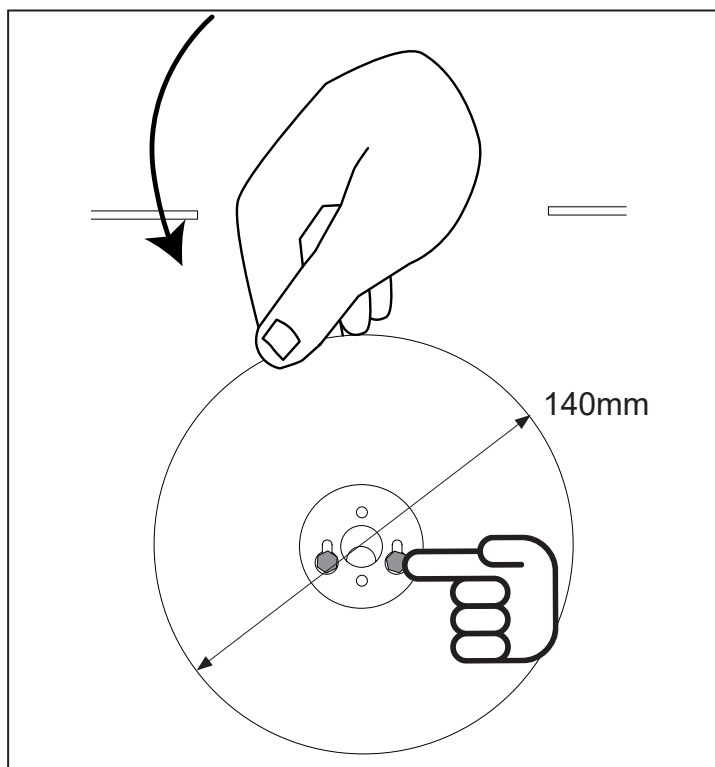
Locate the fixed gobo wheel.



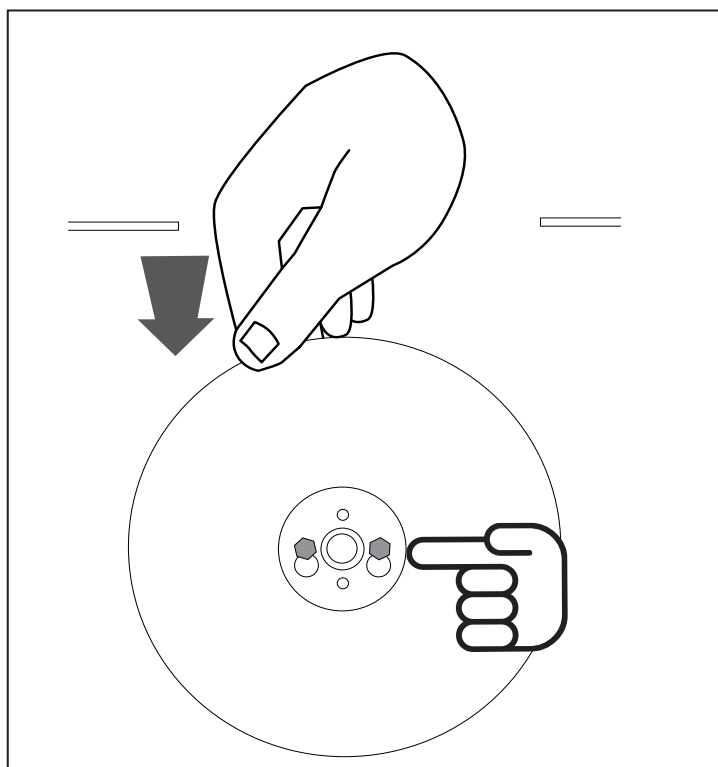
Rotate the wheel manually until it reaches the position shown above, then loosen the two screws by using the tool provided.



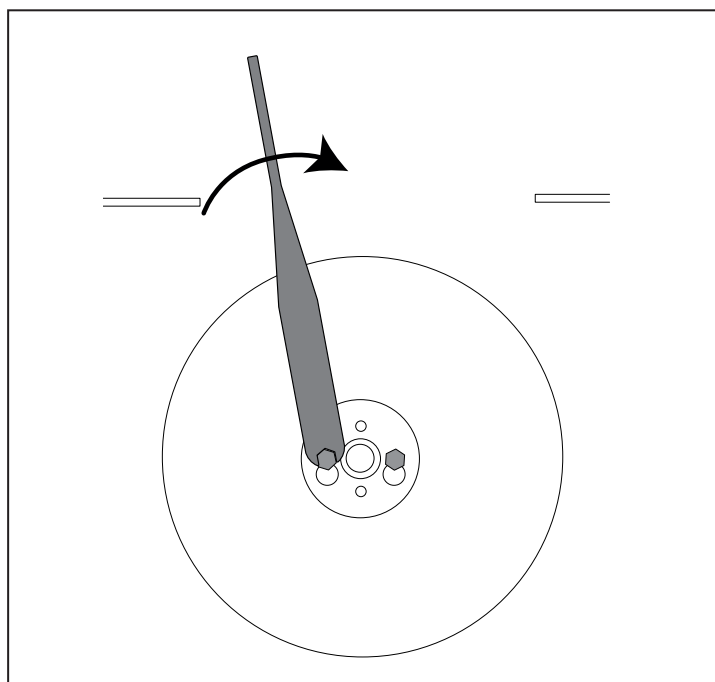
Push down the wheel (until the heads of the two screws reach the bigger slots ) to remove it.



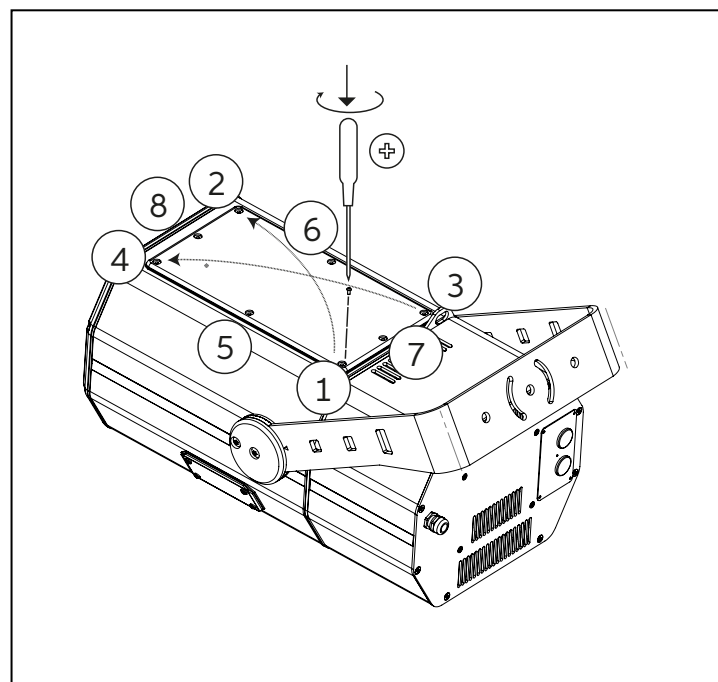
Insert the heads of the screws in the bigger slots of the new wheel.



Push the wheel until the screws reach the end of the slots.



Tight the two screws by using the tool provided.

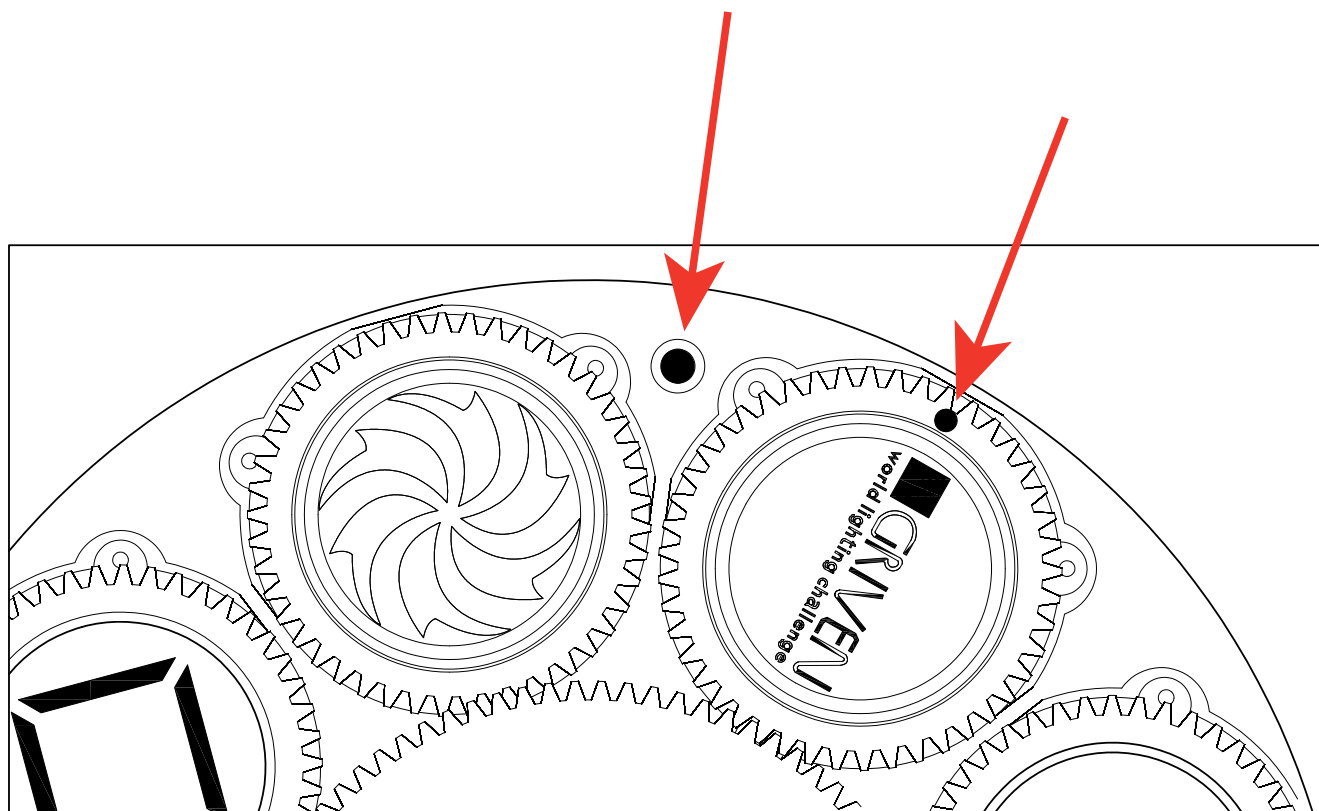
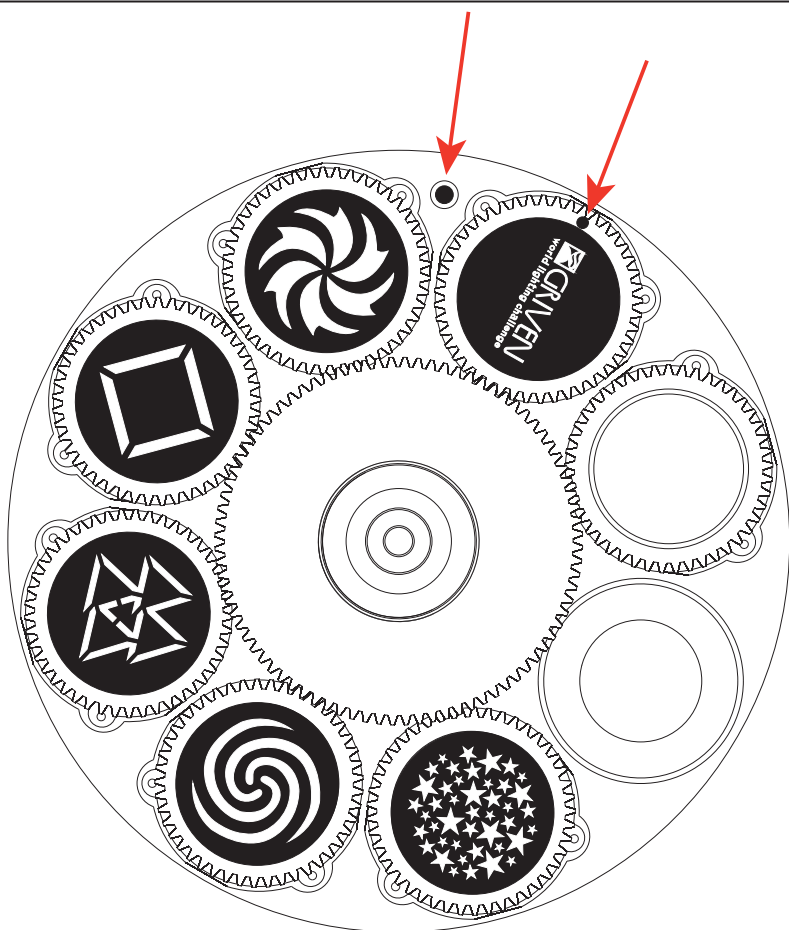


At the end of the operations, close the cover by well cross-tightening the screws.



**WARNING!**

when replacing the gobos in the gobo wheel, the points position below must be respected.

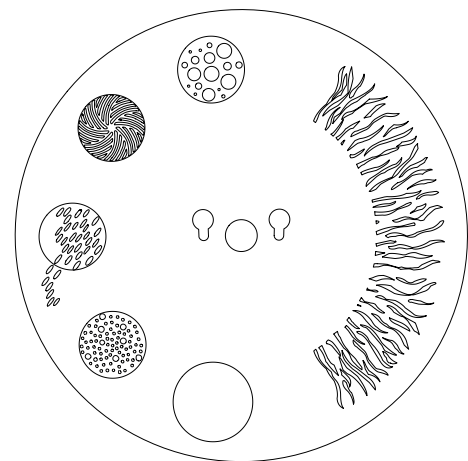


Gobos

7 integrated dichroic gobos available with the interchangeable rotating gobos wheel.



4 printed gobos available with the fixed gobos + animation effect wheel.



Additional metal gobos shipped with GOBOLED 500



[illegible]