

Phantom 250 Spot

ORDERCODE 40167



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Thank you!



Showtec

Showtec Phantom™ Product Guide

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CAUTION!

Keep this device away from rain and moisture! Unplug mains lead before opening the housing!



FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



CAUTION! Be careful with your operations.

With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged.
 Always hold the fixture at the transport handles.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never unscrew the screws of the rotating gobo, as the ball bearing will otherwise be opened.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always replace the lamp, when it is damaged or deformed due to the heat.

- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when
 replacing lamp! Only handle the power-cord by the plug. Never pull out the plug by tugging the
 power-cord.
- To ensure the longest and most efficient use of the lamp always wait 15 minutes before reapplying power after a shutdown. Failure to do so could result in premature aging of the lamp and failure to the electronics that drive it.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Movinghead must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



CAUTION! EYEDAMAGES!.

Avoid looking directly into the light source.

(meant especially for epileptics)!



OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 1.3 meter.

The maximum ambient temperature t_a must never be exceeded.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!
Always let the installation be carried out by an authorized dealer!

Procedure:

- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting-bracket, to the trussing system.
- The projector must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the projector, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

The Phantom can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

Mounting a clamp to the underside of the Phantom moving head



Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property!

Description of the device

Features

The Showtec Phantom is a moving-head with high output and great effects.

- 1 Color-wheel with 7 colored gobos, and open
- 1 Gobo-wheel with 5 metal and 2 glass interchangeable rotating gobos plus open
- DMX-control via standard DMX-controller
- 14 DMX-control channels required
- Mechanical Dimmer/Shutter/Strobe
- Strobe-effect with adjustable speed (1 10 flashes/sec.)
- Sound-controlled via built-in microphone
- Manual focus
- Pan 0° -- 540°
- Tilt 0° -- 270°
- Pan/Tilt speed & reset control channel
- Gobo Shake
- Automatic Pan/Tilt correction
- 16 bit movement
- LED display menu with invert
- Pan/Tilt Invert option
- Micro-stepping motors
- Thermal switch
- Lamp MSD 250
- Fuse T5A / 250V



1) Lens

Backside



- 2) IEC power connector + Fuse 5A 250V
 3) Built-in Microphone
 4) Blackout Footswitch
 5) DMX signal connector (IN)
 6) DMX signal connector (OUT)

Installation

Installing the Lamp

The Showtec Phantom uses the MSD 250 (ordercode 80920P / 80920O / 80933O / 82603 / 80935) reflectorbulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit. Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.

Always disconnect from electric mains power supply before changing lamps.

The lamp has to be replaced when it is damaged or deformed due to the heat.

Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.

Damages caused by non-observance are not subject to warranty.

Procedure:

- 1. Loosen the 2 screws on the back of the housing.
- 2. Gently remove the small metal housing.
- **3.** Read lamp instructions. Do not touch the lamp bulb glass. (See Figure 3.) Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.).
- **4.** Insert the lamp pins into the small holes in the lamp socket. You can adjust the distance between the lamp and the lens on the back of the cover.
- **5.** Put the lamp cover back and fasten the screws snugly. Then put the plastic housing back and fasten the screws snugly.







Backside Lamp Board

Fig. 4

Lamp Adjustment

You can adjust the lamp's position by turning the screws A, B, C.

The lamp position is set in the factory. As the lamps, which can be used, differ from manufacturer to manufacturer, it can be necessary to readjust the position. The lamp must be readjusted e.g., if the light does not seem to be evenly distributed within the ray of light.

Ignite the lamp and focus the ray of light on an even surface (wall). As the optimal distance between the lamp and the lens was already set during the installation with screw "A", only the "Hot Spot" (the brightest part of the ray of light) must be centered. Turn in addition screw "B". If the Hot Spot appears too bright, you can weaken its intensity, by moving the lamp closer to the reflector. Turn in addition screw "A", until the light is evenly distributed. If the light at the outside edge of the ray of light appears brighter as in the center, the lamp is too close to the reflector. In this case move the lamp away from the reflector, until the light is evenly distributed and the ray of light appears bright enough.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

One Phantom

- 1. Fasten the moving head onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Phantom). Leave at least 1 meter on all sides for air circulation.
- 2. Plug one end of the electric mains power cord into the IEC socket on the unit.

 Then plug the other end of the cord into a proper electric power supply socket.
- 3. Turn on the music. If Audio is set, then the fixture will react to the beat of the music.

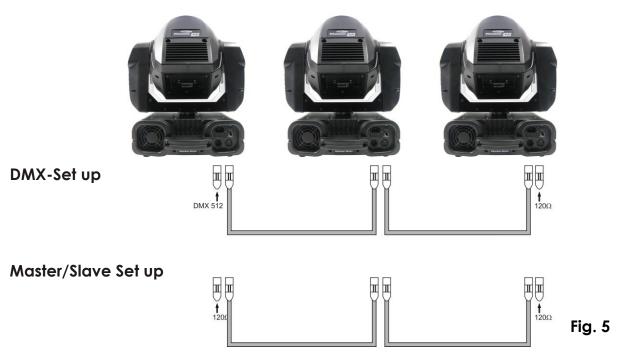
Multiple Phantoms

- 1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the Phantom). Leave at least 1 meter on all sides for air circulation.
- 2. Use a 3-p XLR cable to connect the Phantoms and other devices. The pins:



- 1. Earth
- 2. Signal -
- 3. Signal +
- **3.** Link the units as shown in (figure 5), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
- **4.** Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.
- 5) Only one fixture can be the master.

Multiple Phantoms Set Up



Note: Link all cables before connecting electric power

DMX Protocol

Channel 1 - Horizontal movement (Pan)

Push the slider up, in order to move head horizontally (PAN).

Gradual head adjustment from one end of the slider to the other (0-255, 128-center).

The head can be turned by 540° and stopped at any position you wish.

Channel 2 - Vertical movement (Tilt)

Push the slider, up in order to move head vertically (TILT).

Gradual head adjustment from one end of the slider to the other (0-255, 128-center).

The head can be turned by 270° and stopped at any position you wish.

Channel 3 - Pan fine 16 bit

Channel 4 - Tilt fine 16 bit

Channel 5 - PAN/TILT Speed

0-255	From Max Speed (0) to Min. Speed (255) in vector mode

Channel 6 - Colours

Linear color change following the movement of the slider. In this way you can stop the color-wheel in any position – also between two colors creating double-colored beams. Between 128 - 255, the color-wheel rotates continuously the so-called "Rainbow" effect.

0-15	Open / White
16-31	Blue
32-47	Red
48-63	Pink
64-79	Green
80-95	Yellow
96-111	Magenta
112-127	UV
128-255	Forwards rainbow effect from fast to slow

Channel 7 – Rotating Gobo's

0-9	Open / White
10-19	Gobo 1 (metal)
20-29	Gobo 2 (metal)
30-39	Gobo 3 (metal)
40-49	Gobo 4 (metal)
50-59	Gobo 5 (metal)
60-69	Gobo 6 (glass)
70-79	Gobo 7 (glass)
80-99	Shaking Gobo 1
100-119	Shaking Gobo 2
120-139	Shaking Gobo 3
140-159	Shaking Gobo 4
160-179	Shaking Gobo 5
180-199	Shaking Gobo 6
200-219	Shaking Gobo 7
220-255	Continuous Clockwise rotation from slow to fast

Channel 8 – Rotating gobo index, rotating gobo rotation

0-127	Gobo indexing
128-191	Forwards (CW) gobo rotation from fast to slow
192-255	Backwards (CCW)gobo rotation from slow to fast

Channel 9 – Shutter / Strobe

0-7	Shutter closed / Blackout
8-22	Shutter open
23-85	Strobe effect, from slow to fast (0-10 flashes/sec.)
86-100	Shutter open
101-165	Pulse-effect, in sequences from slow to fast
166-180	Shutter open
181-245	Random strobe effect, from slow to fast
246-255	Shutter open

Channel 10 – Dimmer intensity

0-255	From brightest to black
-------	-------------------------

Channel 11 – Lamp ON OFF & Reset

0-9	No function
10-19	Moving Blackout
20-99	No function
100-109	Reset
110-129	No function
130-145	Auto Program 1
146-161	Auto Program 2
162-177	Auto Program 3
178-193	Auto Program 4
194-209	Sound control 1
210-225	Sound control 2
226-241	Sound control 3
242-255	Sound control 4

Channel 12 – Effect

0-9	No Effect
10-19	Effect 1
20-29	Effect 2
30-39	Effect 3
40-49	Effect 4
50-59	Effect 5
60-69	Effect 6
70-79	Effect 7
80-89	Effect 8
90-99	Effect 9
100-109	Effect 10
110-119	Effect 11
120-129	Effect 12
130-139	Effect 13
140-149	Effect 14
150-159	Effect 15
160-169	Effect 16
170-179	Effect 17
180-189	Effect 18
190-199	Effect 19
200-209	Effect 20
210-219	Effect 21
220-229	Effect 22
230-239	Effect 23
240-249	Effect 24
250-255	Effect 25

Channel 13 - Prism

0-15	No rotation
16-239	Backwards rotation from fast to slow
240-255	Prism

Channel 14 - Focus

0-255	From close distance to far distance

The Phantom can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel

When the indicator light is on, means the Phantom is working



Fig. 6

- A. LED
- **B.** Display
- C. [ENTER] Button
- D. [CHOOSE] Button
- E. Up Button
- F. Down Button

Control Mode

The fixtures are individually addressed 001-512 on a data-link and connected to the controller. The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Phantom will respond to the controller.

Please note when you use the controller, the unit has 14 channels.

When using multiple Phantoms, make sure you set the DMX addresses right.

Therefore, the DMX address of the first Phantom should be **1(A001)**; the DMX address of the second Phantom

should be **1+14=15 (A015**); the DMX address of the third Phantom should be **15+14=29 (A029)**, etc. Please, be sure that you don't have any overlapping channels in order to control each Phantom correctly.

If two or more Phantoms are addressed similarly, they will work similarly.

For address settings, please refer to the instructions under "Addressing' (menu

DMX Address: DOL

Controlling:

After having addressed all Phantom fixtures, you may now start operating these via your lighting controller.

Note: After switching on, the Phantom will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED**" on the control panel will not flash. The problem may be:

- The XLR cable from the controller is not connected with the input of the Phantom.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Remotely controllable functions

Colour-wheel

The Phantom contains a colour-wheel with 7 colours and one white. It is also possible to rotate the colour-wheel continuously at different speeds ("Rainbow effect" in both directions).

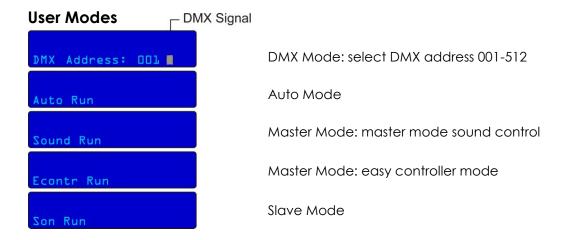
Rotating gobo-wheel

This rotating gobo-wheel has 5 metal gobos, 2 glass gobos and open.

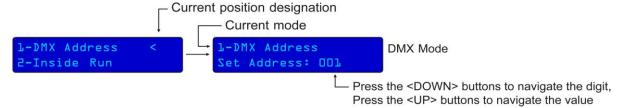
Shutter/Dimmer/Strobe

The dimming (0-100%) is provided by a simple mechanical shutter unit. This unit may also be used for strobe effect (1-10 flashes per second).

Menu Overview et Address: DOL 2-Inside Run 2-Insid Run Program 3-Pan Auto mode 2-Insid Run Program Master sound control mode Easy controller mode 2-Insid Run Program Slave mode Pan mode Select: Normal Positive 3-Pan Pan mode Negative Tilt mode Select: Normal Positive -Display Tilt mode Select: Reverse Negative The Background lighting long-light Select: Bright 5-Display The Background lighting will turn off affter 30 seconds if no buttons are pushed Pan 540° (For built-in program only) Pan 360° (For built-in program only) Select: 360 6-Pan Angle Pan 180° (For built-in program only) Tilt 270° (For built-in program only) Tilt Angle Select: 270 Tilt 180° (For built-in program only) Tilt 90° (For built-in program only) 8-Color Color wheel run mode Stepping mode operated -Channel Select: Step 8-Color Color wheel run mode Linear mode operated Basic / Advanced mode Advance mode -Channel Basic / Advanced mode Select: Basic Basic mode 10-Reset System No function 1-Load set LO-Reset System System reset Ll-Load set No function -DMX Address Load default



Navigating through the menu



Use the Up-Down buttons to scroll through the menu; Press the ENTER button to select a desired menu function and press the MODE-ESC button to return to a previous menu.

Calibration Options

Press and hold down the MODE-ESC button for 10 seconds, when you are in DMX address menu.

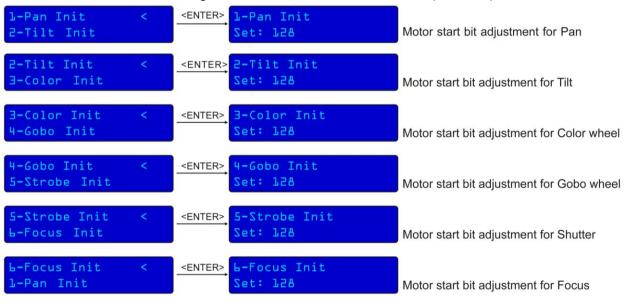
l-DMX Address Set Address: OOL

The display will show:

Init Motor Set Password:0000

First enter the password: **2323**Use the up button to increase the value, use the down button navigate through the digits.

You will now enter a calibrating menu and be able to calibrate 6 specific options.



When you have set a certain value, you can store it by pressing the ENTER button. To return to the previous menu press the MODE/ESC button.

If no buttons are pressed for 5 seconds the device will return to the main menu

Channels settings

Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14
unction	PAN	TILT	PAN 16bit	TILT 16Bbit	Speed	Color	Gobo 1	Gobo Rotation	Shutter	Dimmer	Function	Effect	Prism Rotation	Focus
128		## ## ##	16 Fât	♣ 16Eit	PAN/TILT Speed	192-255 (Cambow) (Cam	220-219	192-255 Negative rofation Positive Positive rotation O-127 Gobor votate Index	246-255 246-256 246-256 Random open 166-180 Open 101-165 Pulse strobe 86-100 Open 23-85 Strobe speed	255 Close	242-255 Sound control 4 226-241 Sound control 3 200-225 Sound control 2 Sound control 2 Sound control 1 178-103 Auto program 4 162-161 Auto program 2 Auto program 2 Auto program 1 110-129 No function 100-109 Reset	250-255 Effect 25 240-249 Effect 24 230-239 Effect 22 230-229 Effect 22 230-229 Effect 20 200-209 Effect 20 190-199 Effect 19 180-189 Effect 18 170-179 Effect 17 160-169 Effect 16 150-159 Effect 14 130-139 Effect 14 130-139 Effect 14 130-139 Effect 14 130-139 Effect 15 140-149 Effect 14 130-139 Effect 16 100-109 Effect 10 90-99 Effect 9 90-89 Effect 8 70-79 Effect 7 60-69 Effect 6	240-255 Prism	•
	540°	540'				16-31	20~29		8~22 Open 0~7 Close	Open Open	No runction 10–19 Moving blackout 0-9 No function	4049 Effect 4 3039 Effect 3 2029 Effect 2 1019 Effect 1 09 No function	0~15 Stop	•

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once every half year.

The following points have to be considered during the inspection:

- 1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 2. There may not be any deformations on housings, fixations and installation spots.
- 3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
- **4.** The electric power supply cables must not show any damages or material fatigue.

The Showtec Phantom requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.

The cooling-fans, colour-filters, the gobowheel, the gobos and the internal lenses should be cleaned monthly with a soft brush.

Please clean internal components once a year with a light brush and vacuum cleaner.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp

- 1. Disconnect mains power supply. Loosen the 2 screws on the back of the housing.
- 2. Gently remove the small metal housing.
- 3. Follow directions for installing a new lamp, page 7.

Replacing a Fuse

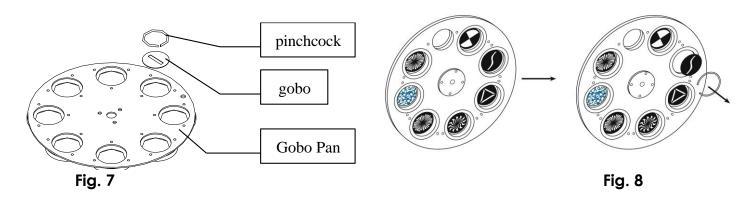
Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so

- 1. Unplug the unit from electric power source.
- 2. Insert a flat-head screwdriver into a slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
- 3. Remove the used fuse. If brown or unclear, it is burned out.
- **4.** Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Replacing a Gobo

Gobo-wheel with rotating gobo's

- 1. Disconnect mains power supply and set the switch to OFF.
- 2. Make sure that the gobo you want to insert has the same size.
- 3. Turn the gobo wheel, with the gobo you want to remove, to the upside.
- **4.** Very carefully take the pinchcock (fig 7 and 8) out of the gobo wheel, but pay attention that the pinchcock does not fall in the device. Then push the gobo out.
- **5.** Place the new gobo in the gobo wheel. Carefully put the pinchcock back, gently press the pinchcock a little bit together. Possibly use a pair of pliers to press the pinchcock a little bit together.
- 6. Replace the maintenance cap and fasten all screws.



Troubleshooting

No Light, No Movement - All Products

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

If the light effect does not operate properly, refer servicing to a technician.

Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

- 1. Power supply. Check that the unit is plugged into an appropriate power supply.
- **2.** The lamp. Replace the old lamp with a new one with the same specifications. See page 7 for replacing lamps.
- 3. The fuse. Replace the fuse. See page 16 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

- 1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- 2. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy				
	No power to the fixture	·Check that power is switched on				
One or more		and cables are plugged in.				
fixtures are	Primary fuse blown.	· Replace fuse.				
completely dead.	Thiridiy lose blown.	r replace lose.				
Fixtures reset	The controller is not connected.	· Connect controller.				
correctly, but all	3-pin XLR Out of the controller	·Install a phase reversing cable				
respond	does not match XLR Out of the first	between the controller and the first				
erratically or not	fixture on the link (i.e. signal is	fixture on the link.				
at all to the controller.	reversed).					
commoner.		· Check data quality. If much lower				
		than 100 percent, the problem may				
		be a bad data link connection, poor				
	Poor data quality	quality or broken cables, missing				
		termination plug, or a defective				
		fixture disturbing the link.				
		·Inspect connections and cables.				
	Bad data link connection	Correct poor connections. Repair or				
		replace damaged cables.				
Fixtures reset	Data link not terminated with 120	·Insert termination plug in output jack				
correctly, but	Ohm termination plug.	of the last fixture on the link.				
some respond	Incorrect addressing of the fixtures.	Check address setting.				
erratically or not		Bypass one fixture at a time until normal operation is regained: unplug				
at all to the	One of the fixtures is defective and	both connectors and connect them				
controller.	disturbs data transmission on the	directly together.				
	link.	· Have the defective fixture serviced				
		by a qualified technician.				
		· Install a phase-reversing cable				
	3-pin XLR Out on the fixtures does	between the fixtures or swap pin 2				
	not match (pins 2 and 3 reversed).	and 3 in the fixture, that behaves				
Shutter closes	The color wheel, gobo wheel, or a	erratically. Contact a technician for servicing if				
suddenly	gobo has lost its index position and	the problem persists.				
	the fixture is resetting the effect.	5 6.00.00.00				
	The power supply settings do not	· Disconnect fixture. Check settings				
No light	match local AC voltage and	and correct if necessary.				
	frequency.	<u> </u>				
	Lamp missing or blown	Disconnect fixture and replace lamp.				
Lamp cuts out	Fixture is too hot.	· Allow fixture to cool. · Clean fan.				
intermittently.	TIXIOIG IS TOO HOT.	Make sure air vents at control panel				
		and front lens are not blocked.				
		Turn up the air conditioning.				
	The power supply settings do not	· Disconnect fixture. Check settings				
	match local AC voltage and	and correct if necessary.				
	frequency.					

Product Specification

Model: Showtec Phantom Voltage: 240V-50Hz (CE)

Fuse: 5A / 250V

Dimensions: 410x420x420mm (LxWxH)

Weight: 20,4 kg

Operation and Programming

Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+) Set Up and Addressing: LED control panel

Pan / Tilt 16 bit DMX Channels: 14 Signal input 3-pin XLR male Signal output 3-pin XLR female

Lamp

Allowed lamp models*:

Showtec NSD 250/2 (2000 hr) (ordercode 82603)
Philips MSD 250 (3000 hr; 6700K) ordercode 80920P
Osram HSD 250 (2000 hr; 6000K) ordercode 80926O
Osram HSD 250/78 (1000 hr; 7800K) (ordercode 80933O)

Control: Automatic and DMX remote ON / OFF



Colors: 7 colors plus white

Gobos rotating: 5 rotating metal gobos, 2 rotating glass gobos and open

Colour-wheel with variable rotation speed

Gobo rotation: adjustable speed, position direction, Gobo shake

All lenses are anti-reflection coated

High luminous-efficiency parabolic system

Strobe-effect with variable speed (1 flash -- 10 flashes/sec.)

DMX-control via standard DMX-controller Sound-controlled via built-in microphone

Pan 0° -- 540° Tilt 0° -- 270°

Automatic Pan / Tilt position correction Wheel control: auto-electronic reset

Thermal switch

Gobos

Gobo diameter (metal or glass) 27 mm Maximum image diameter 21.5 mm Glass gobo: heat-resistant and intensify glass; dichroic glas coating Max. ambient temperature t_a : 40°C; Max. housing temperature t_B : 80°C Cooling: 2 axial fans - one fan in the projector and one in the base Motor: 11 high quality stepping-motor controlled by microprocessors

Minimum distance:

Minimum distance from flammable surfaces: 0.5m Minimum distance to lighted object: 1.3m

*: Versions for other lamps may be produced. Please check the specification label on your product.

Design and product specifications are subject to change without prior notice.



420 mm

270°

Website: <u>www.Showtec.info</u> Email: <u>service@highlite.nl</u>



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