

CLUB
Strobleflower®

OPTIKINETICS

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

1. INTRODUCTION

When installed and operated correctly, your Club Strobeflower system will reward you with long and reliable service. It is essential that you read and thoroughly understand this manual before proceeding with the installation or operation of any part of the system.

The Strobeflower system consists of two parts, the Club Strobeflower itself and a four channel Club Strobeflower controller. The controller is designed to control multiples of four Club Strobeflowers simultaneously, although the minimum system comprises one Club Strobeflower operating without the use of a controller. In this configuration, the Club Strobeflower will operate in a basic mode of operation for as long as it has a mains supply connected.

It is important to note that the Club Strobeflower system is not compatible with the standard or Professional Strobeflower systems supplied by Optikinetics. The Club Strobeflower and the Club Strobeflower controller MUST be used together.

The types of visual effects produced by the Club Strobeflower system are many and varied. They are best appreciated in a smoky atmosphere where the beam patterns produced appear as three-dimensional shafts of illuminated smoke.

At all times it is imperative to remember that there are several potentially harmful components used within the Club Strobeflower system. Absolutely no access to the inside of the Club Strobeflower should be attempted until the necessary precautions have been taken, and then only by qualified service personnel.

OPTI U S A P.06/13

TO

FROM OPTI LUTON

15:30

09-OCT-2000

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

CONTENTS

| | |
|-----------------------------------------|----|
| 1. INTRODUCTION | 1 |
| 2. INSTALLATION | 2 |
| 2.1. Operation without controller | 2 |
| 2.2. Positioning of Strobeflowers | 2 |
| 2.3. Positioning of controller | 3 |
| 2.4. Mains supplies | 4 |
| 2.5. Control cables | 5 |
| 2.6. Audio input | 7 |
| 2.7. Remote disable input | 8 |
| 3. OPERATION | 9 |
| 3.1. General | 9 |
| 3.2. Beam control | 10 |
| 3.3. Lamp control | 10 |
| 4. MAINTENANCE | 12 |
| 5. LAMP REPLACEMENT | 13 |
| 6. ALTERNATIVE REFLECTORS | 14 |
| 7. FRONT-OF-LENS ACCESSORIES | 15 |
| 8. INTERNAL SWITCH SETTINGS | 16 |
| 8.1. Maximum flash rate | 17 |
| 8.2. Override switch function | 17 |
| 8.3. Factory settings | 17 |
| 9. TECHNICAL SPECIFICATIONS | 18 |

LIST OF FIGURES

| | | |
|-------|--------------------------------------------------|----|
| Fig 1 | Mains voltage selection - Controller | 4 |
| Fig 2 | Mains voltage selection - Strobeflower | 5 |
| Fig 3 | Installation of four Club Strobeflowers | 6 |
| Fig 4 | Daisy-chaining multiple Club Strobeflowers | 7 |
| Fig 5 | Controller - General | 9 |
| Fig 6 | Controller - Beam control | 10 |
| Fig 7 | Controller - Lamp control | 10 |
| Fig 8 | Internal switch settings | 16 |

2. INSTALLATION

This section is to guide the installer through the steps required to produce the best performance from the Club Strobeflower system. The instructions for positioning the Club Strobeflowers are very general, and do not take into account details of specific installations.

2.1. OPERATION WITHOUT CONTROLLER

It is possible to operate the Club Strobeflower system either with or without the Club Strobeflower controller. When used without a controller, each Club Strobeflower is installed with a switched mains supply and without any control cabling. When the mains is switched on, the Club Strobeflower will operate with the lamp in FULL mode and the beams in RUN mode. These modes of operation are described in section 3.3. This method of installation does not allow the Club Strobeflower to be used to the best of its ability, strobe operation of the lamp not being available for example. However, this method may be improved by means of a commercially available professional lighting controller with mains switching, used with several Club Strobeflowers. In order to achieve the best possible Club Strobeflower installation, it is strongly recommended that a Club Strobeflower controller is used, allowing full use of all the functions of the Club Strobeflower. The rest of this manual applies mainly to a system with a controller.

2.2. POSITIONING OF STROBEFLOWERS

The Club Strobeflower could cause severe injuries if allowed to fall onto an audience from ceiling height. Each Club Strobeflower must be securely fixed in its chosen location so as to reduce any risk.

It is essential that the unit is mounted using the hanging bracket supplied, which in turn must be securely bolted to a solid mounting point (a lighting rig for example). Any other mounting hardware must be sufficiently well engineered to be secure, and to withstand the weight of the unit.

Any subsequent repositioning of the Club Strobeflower must be followed by secure tightening of any nuts and bolts that are used. The pivot bolts and locking handles that secure the hanging bracket to the case of the Club Strobeflower must also be securely tightened.

It is strongly recommended that safety chains or cables are used, such that in the event of failure of any mounting device, the Club Strobeflower will not be free to fall.

In order to obtain the desired effect, it may be necessary to tilt the Club Strobeflower away from horizontal. The unit will operate satisfactorily when mounted at any angle.

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

The fan and louvers in the rear panel of each Club Strobeflower should under no circumstances be obstructed in any way. This would cause the unit to overheat and malfunction.

2.3. POSITIONING OF CONTROLLER

The Club Strobeflower controller is the heart of the Club Strobeflower system. It is highly flexible, enabling much scope for an effective light show. The controller should be mounted on a panel or standard 19 inch rack and may be positioned at any angle.

As with any control equipment, the Club Strobeflower controller should be treated with respect. Any spillage of liquid or cigarette ash for example must not be allowed to seep into the unit. For mobile use, it is advisable to install the controller into a light case to avoid damage.

OPTI U S A P.05/13

TO

FROM OPTI LUTON

15:29

09-OCT-2000

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

2.4. MAINS SUPPLIES

The Club Strobeflower system has been designed to operate with a nominal mains voltage of either 240 volts AC or 120 volts AC at 50 Hz or 60 Hz. This allows operation of the system in most parts of the world. When shipped from the factory, each Club Strobeflower and controller is set to operate at the appropriate mains voltage to suit the part of the world to where it is being shipped. For example, 240 volts for Europe or 120 volts for the United States. This setting is indicated on the rear panel of each unit. It is possible to alter the mains voltage setting by gaining access to the inside of each unit. This should only be undertaken by qualified service personnel, if in doubt this task should be referred to an Optokinetics agent.

If it is necessary to alter the mains voltage setting for the controller, proceed as follows:

1. Remove the six plastic nuts which secure the jack sockets to the rear panel of the controller. Also remove the four screws visible on the rear panel.
2. The rear panel may now be removed, although it will still be attached by means of the mains cable to the circuit board within the unit.
3. Remove the top panel of the unit by sliding it backwards from the slots in the side panels.
4. Located next to the fuseholder on the circuit board are two red plastic links as shown in Fig 1. Each of these is removable and may be installed in either of two positions. These positions are clearly labeled on the circuit board as 120 volts and 240 volts. Both of the links should be installed in the appropriate position to suit the mains voltage being used. Under no circumstances should the unit be operated with these links removed, or with the links installed in different positions to each other.

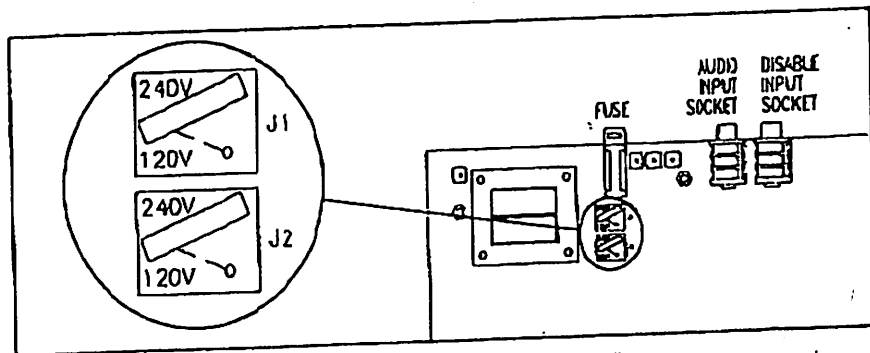


Fig 1. Mains voltage selection - Controller

5. The top panel and rear panel may now be replaced and secured using the reverse procedure to removal.

If it is necessary to alter the mains voltage setting for the Club Strobeflower, proceed as follows:

1. Remove the plastic nut which secures the accessory socket to the side panel of the Strobeflower. Also remove the eight screws visible on the sides of the unit.

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

2. Ease the side panels of the cover outwards slightly, and carefully lift the cover clear of the unit. An earth wire connects the chassis of the unit to the cover. This need not be removed.
3. Located next to the fuseholder on the circuit board is a single red plastic link as shown in Fig 2. This is removable and may be installed in either of two positions. These positions are clearly labelled on the circuit board as 120 volts and 240 volts. The link should be installed in the appropriate position to suit the mains voltage being used. Under no circumstances should the unit be operated with the link removed.

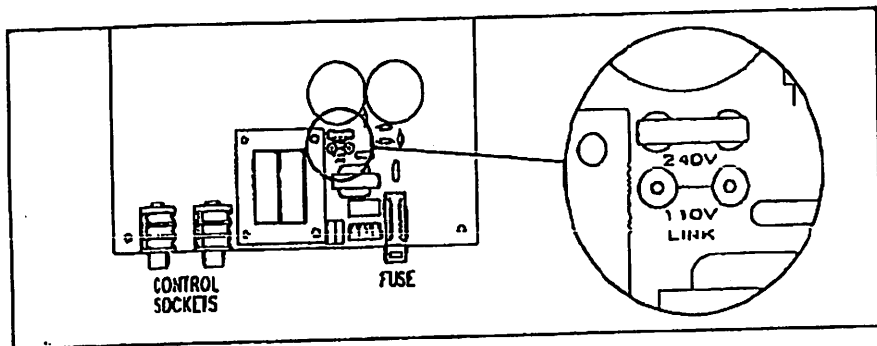


Fig 2. Mains voltage selection - Strobeflower

4. The cover may now be replaced and secured using the reverse procedure to removal.

A mains lead is supplied installed with the controller and with each Club Strobeflower. As the controller contains sophisticated electronic circuitry, the mains supply to it should be as 'clean' as possible. That is, free from mains-borne interference. The supply voltage tolerance and current ratings of the supplies are given in the technical specifications at the end of this manual. The rear panels of both the controller and the Club Strobeflowers are equipped with fuseholders. The appropriate fuse types and ratings are printed on the panels next to the fuseholders. It is essential that the controller and each Club Strobeflower is earthed through the mains lead.

2.5. CONTROL CABLES

The Club Strobeflowers and controller are connected together by means of control cables. The type of cable to use is a two-core screened type. Good quality stereo audio cable is recommended, with a braided screen and conductor size of 16/0.2 mm for good mechanical strength.

Two plugs for the ends of the control cable are supplied with each Club Strobeflower. These are conventional quarter inch stereo jack plugs and are available from numerous sources if replacements are required.

Each control cable must be wired one-to-one. That is, the tip connection at the first end is connected to the tip at the other end, and likewise for the ring and sleeve connections. The sleeve connection of the plugs should be connected to the screen of the cable.

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

The Club Strobeflower system has been designed as a four channel system. That is, up to four Club Strobeflowers may be connected to the controller and each will operate independently from the others in terms of lamp sequencing. This is achieved as shown in Fig 3, by connecting a control cable from the control outputs 1, 2, 3, and 4 on the back panel of the controller to the control inputs on each Club Strobeflower. However, it is also possible to connect multiple Club Strobeflowers to the same channel of the controller. Club Strobeflowers connected to the same channel will always be operating identically. This is illustrated in Fig 4. The first Club Strobeflower connected to each channel is exactly as above. Further Club Strobeflowers are then connected "daisy-chain" fashion, such that the control input of each is connected to the control output of the previous Club Strobeflower.

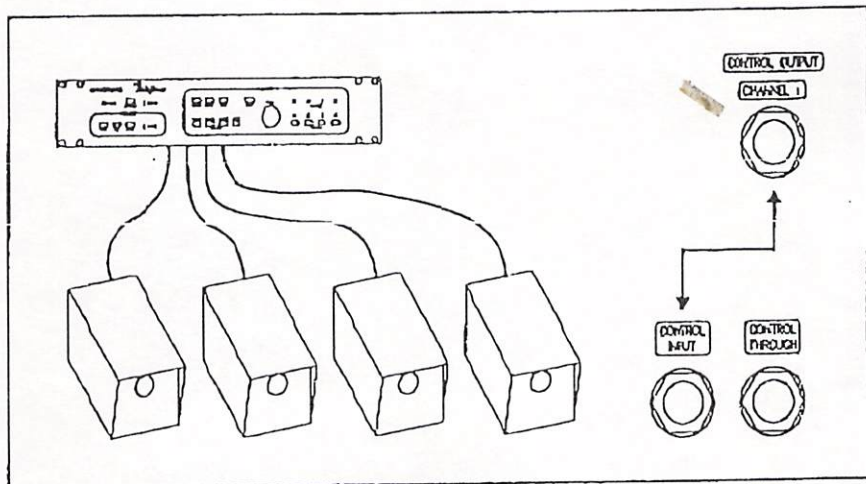
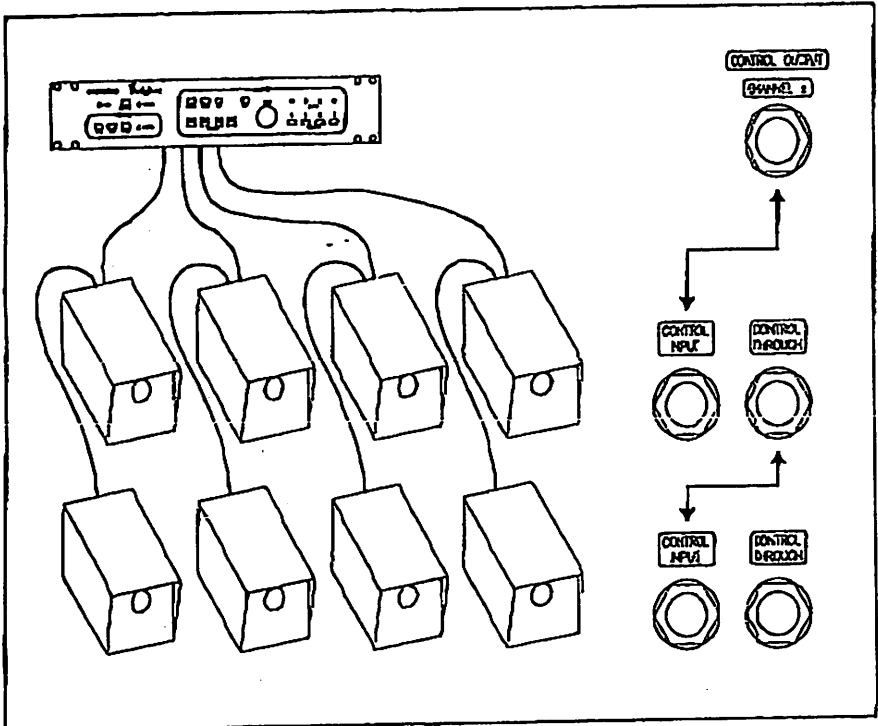


Fig. 3 Installation of four Club Strobeflowers

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

OPTI U S A P. 03/13

TO



FROM OPTI LUTON

15:29

09-OCT-2000

Fig. 4 Daisy-chaining multiple Club Strobeflowers

The maximum length of control cable that may be used is dependent upon the installation, and in favourable conditions it will be possible to use control cables in excess of 100 metres in length. If the installation is electrically very noisy with much interference present, this maximum length is likely to be reduced. This maximum length is the total length of cable connected to a single channel.

2.6. AUDIO INPUT

An audio input signal is recommended for an effective light show. The audio signal is applied to the controller by a conventional quarter inch stereo jack plug. The controller will respond to any audio signal level between 0.3 and 100 volts RMS. This enables the audio signal to be derived from a wide variety of sources, including 100 volt line P.A. systems. The audio signal may be from either a mono or stereo source.

The jack plug for the audio input signal should be wired as a conventional audio jack plug. The use of good quality screened audio cable is recommended. The 'earthy' or common side of the audio signal is connected via the cable screen to the sleeve connection of the plug. The left and right signals from a stereo source are then connected either way round to the ring and tip connections of the plug. If a mono source is being used, then the signal connection is made to either the ring or the tip.

2.7. REMOTE DISABLE INPUT

This input is provided in order to allow the entire Club Strobeflower system to be enabled or disabled by means of a commercially available professional lighting controller. In this way it is possible to integrate the Strobeflower system into a complete lighting installation.

The signal required by this input is as follows:

| | |
|----------|-----------------|
| Disabled | 0 volts |
| Enabled | +5 to +20 volts |

This signal is applied to the controller by a conventional quarter inch mono jack plug. The use of good quality screened audio cable is recommended. The 'earthy' or common side of the disable signal is connected via the cable screen to the sleeve connection of the plug, and the positive side of the signal is connected to the tip of the plug.

3. OPERATION

This section describes how the controller operates with the Club Strobeflowers, and how to obtain the various effects from the system. It is then up to the operator to discover the full flexibility of the Club Strobeflower system.

3.1. GENERAL

Refer to Fig 5.

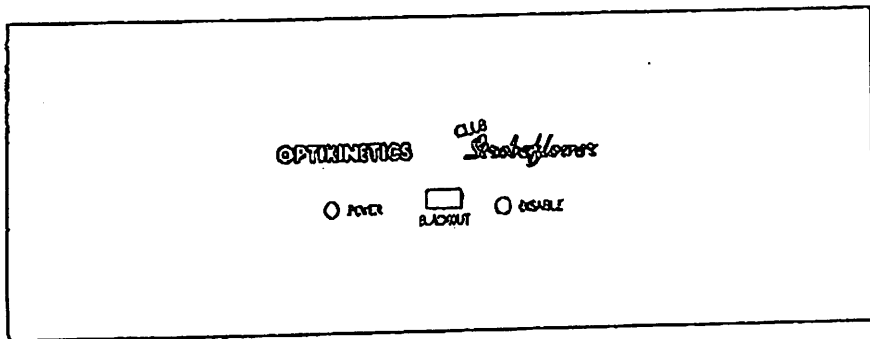


Fig 5. Controller - General

When mains is applied to the controller the POWER LED will be illuminated to indicate that the system is switched on. There is no facility on the unit to switch it off.

The DISABLE LED, when lit indicates that the system has been disabled in one of two ways. Either by a lighting controller connected to the remote disable input, or by depressing the BLACKOUT switch. In the disabled state, none of the lamps in the Club Strobeflowers may be turned on. The motor which generates the beam movement is also switched off in order to prolong motor life.

OPTI U S A P.02/13

TD

09-OCT-2000 15:28 FROM OPTI LUTON

3.2. BEAM CONTROL

Refer to Fig 6.

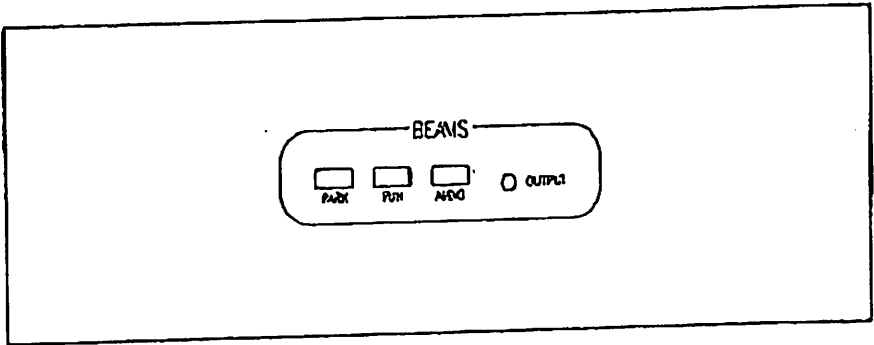


Fig 6. Controller - Beam control

The BEAMS part of the controller controls the movement of the beam pattern from each Club Strobeflower, by means of three switches.

When the PARK switch is depressed, the beam pattern is stationary. The beam pattern may be made to rotate by depressing either of the RUN or AUDIO switches. The RUN switch causes the beam pattern to rotate continuously in one direction, while the AUDIO switch causes the beam pattern to periodically change direction according to the beat of the music at the audio input.

3.3. LAMP CONTROL

Refer to Fig 7.

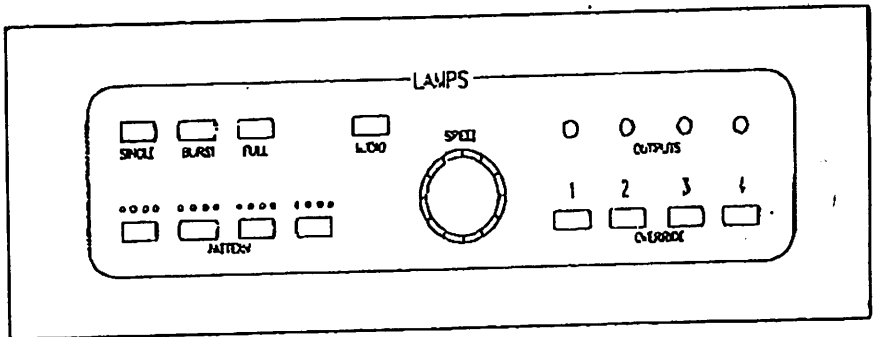


Fig 7. Controller - Lamp control

The LAMPS part of the controller controls the lamps within each Club Strobeflower. The lamps in the Club Strobeflowers on each of the four channels may be sequenced in any of four preset patterns. In addition, the lamps may be operated in any of three modes. A set

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

of switches is provided to override the preset sequence. A speed control is provided to control the rate of sequencing.

The four monitor LED's labelled 1 to 4, indicate the state of the lamps of channels 1 to 4. That is, on off or flashing.

The lamp sequence pattern is preset by means of the four PATTERN switches. The operating mode of the lamps is selected by means of the SINGLE, BURST, and FULL switches.

The SINGLE and BURST modes are both strobe modes, each Club Strobeflower lamp produces a very brief, high intensity flash according to the preset pattern. In the SINGLE mode, each step in the sequence produces a single flash, and the speed control adjusts the step rate. In the BURST mode, each step in the sequence produces a burst of flashes at the maximum flash rate. In this mode, the speed control adjusts the duration of each burst of flashes.

The maximum flash rate is factory set to 16 Hz. It may be necessary to reduce this to 8 Hz to conform to local authority regulations. This may be achieved by qualified service personnel. Further details are available from the technical department of Optikinetics.

In the FULL mode, the Club Strobeflower lamps operate in a continuous fashion. The lamps appear continuously on, rather than strobing as in the other modes, whilst sequencing according to the preset pattern.

If the AUDIO switch is depressed, then the stepping of the preset pattern from one state to the next, is initiated by the beat of the audio signal.

If none of the override switches are depressed then the lamp sequence is according to the preset pattern. If any of the override switches are depressed, then the lamps of the corresponding channels are forced to operate, overriding the preset pattern.

The exact mode of operation of the override switches may be altered by qualified service personnel. When supplied by Optikinetics the override switches force the appropriate channels to operate, whilst the remaining channels are switched off. The alternative mode of operation also forces the appropriate channels to operate, but allows the remaining channels to operate according to the preset sequence. Further details are given in the section on Internal Switch Settings.

OPTI U S A P.13/13

TO

FROM OPTI LUTON

15:32

09-OCT-2000

4. MAINTENANCE

Before attempting any maintenance which involves gaining access to the inside of a Club Strobeflower, please read the safety precautions inside the front cover of this manual.

The entire Club Strobeflower system requires little maintenance. All of the moving parts within each Club Strobeflower are lubricated for life and require no attention. The only maintenance required is periodical cleaning of the optical system to ensure that the visual effect does not degrade. Proceed as follows:

1. Remove the plastic nut which secures the accessory socket to the side panel of the Strobeflower. Also remove the eight screws visible on the sides of the unit.
2. Ease the side panels of the cover outwards slightly, and carefully lift the cover clear of the unit. An earth wire connects the chassis of the unit to the cover. This need not be removed.
3. Using a glass cleaning compound and a soft cloth, carefully clean the three elements of the optical system. These are the lens at the front of the unit, the dished reflector covered with mirrors and the small mirror adjacent to the lamp. On no account should an abrasive cleaning compound be used for this purpose. Care must be taken to ensure that the lamp remains scrupulously clean. Any marks such as finger marks, should be removed using methylated spirits and a soft cloth.
4. The cover should now be replaced and secured using the reverse procedure to removal.

After cleaning the optical system, it is advisable to check the alignment of the lamp and adjust if necessary. This procedure is described in section on lamp replacement.

5. LAMP REPLACEMENT

Before attempting any lamp replacement, please read the safety precautions inside the front cover of this manual.

After prolonged use, the lamps used in each Strobeflower may fail, and require replacement. The expected life of the lamp is approximately twenty million flashes. The time taken for the lamp to reach the end of its useful life therefore depends upon the flash rate being used. Continuous use in FULL mode will result in a lamp life of approximately one hundred hours, although much longer life will result when used in SINGLE and ADJUST modes.

Use of the correct type of lamp as a replacement is absolutely essential. The lamp has been developed specifically for the Club Strobeflower, and is available only from Optikinetics and their agents. There is no suitable alternative, and the attempted use of any other type of lamp will invalidate the guarantee, and is likely to damage the unit.

The lamp replacement procedure is as follows:

1. Remove the plastic nut which secures the accessory socket to the side panel of the Strobeflower. Also remove the eight screws visible on the sides of the unit.
2. Ease the side panels of the cover outwards slightly, and carefully lift the cover clear of the unit. An earth wire connects the chassis of the unit to the cover. This need not be removed.
3. The lamp is mounted upon two brass blocks clearly visible within the Club Strobeflower. Remove the two screws which connect the lamp wires to the brass blocks. Slacken the two screws which secure the lamp, and remove the lamp.
4. The new lamp is fitted to the brass blocks using the reverse procedure. The lamp must be fitted the right way round. On the glass of the lamp at one end, is a plus sign (+), this must be at the right hand brass block when looking forwards from the back of the unit. A diagram is printed on the rear panel of the Club Strobeflower illustrating this.
5. The cover should now be replaced and secured using the reverse procedure to removal.
6. The optical system now needs to be adjusted to suit the new lamp. Connect mains power to the Club Strobeflower so that the lamp comes on in FULL mode. Undemeath the unit are two adjustment screws, which are labelled as lamp adjusters on the rear panel. With the Club Strobeflower pointing at a wall several metres away, adjust each of these screws alternately, until each of the beams produces an approximately circular spot on the wall rather than two spots or a two-lobed shape.

P.12/13

OPTI U S A

TO

FROM OPTI LUTON

15:31

09-OCT-2000

6. ALTERNATIVE REFLECTORS

Within each Club Strobeflower is a rotating reflector assembly, consisting of a series of mirrors mounted on the concave surface of a dish-shaped spinning. It is the pattern of these mirrors that determines the pattern of beams which emerges at the front of the Club Strobeflower. Units leaving the factory are equipped with a reflector assembly having approximately 95 circular plane mirrors. This produces a pattern of 95 narrow circular beams, spreading out over a thirty degree cone from the front of the Club Strobeflower.

In order to obtain different beam patterns, alternative reflectors will be available from Optikinetics. Your Optikinetics dealer should be consulted for details of available reflectors.

As it is necessary to gain access to the inside of the unit in order to change reflectors, please read the safety precautions inside the front cover of this manual.

The procedure for changing the reflector is as follows:

1. Remove the plastic nut which secures the accessory socket to the side panel of the Strobeflower. Also remove the eight screws visible on the sides of the unit.
2. Ease the side panels of the cover outwards slightly, and carefully lift the cover clear of the unit. An earth wire connects the chassis of the unit to the cover. This need not be removed.
3. The reflector can now be seen mounted upon the shaft of a motor. It is mounted on the shaft by means of a small screw. Rotate the reflector until the screw comes into view on the central boss of the reflector. Using a screwdriver, slacken the screw several turns, and gently remove the reflector.
4. Carefully slide the new reflector onto the motor shaft, and tighten the securing screw on to the flat on the motor shaft.
5. The cover should now be replaced and secured using the reverse procedure to removal.

7. FRONT-OF-LENS ACCESSORIES

As a future development, it is intended to make available a range of front-of-lens accessories for the Club Strobeflower. Some of these will be motorised in which case they will be powered from the socket on the side of the unit. This provides a drive which mimics the beam movement. Hence the accessory motor drive may be halted, continuous or animated according to the setting at the controller.

To install a front-of-lens accessory, remove the four screws positioned around the lens of the Club Strobeflower and use these to secure the accessory to the unit. A corresponding set of holes is provided on the accessory. If the accessory is motorised, plug the connection cable into the socket in the side of the Club Strobeflower.

Also, an adaptor is available to mount a commercially available Parcan type of colour scroller on the front of the Club Strobeflower in order to provide the unit with a colour change facility. This adaptor is mounted on the front panel as described above.

P.11/13
OPTI U S A

TO

09-OCT-2000 15:31 FROM OPTI LUTON

8. INTERNAL SWITCH SETTINGS

There are several adjustments which may be carried by qualified service personnel by gaining access to the inside of the Club Strobeflower controller. These adjustments are the maximum flash rate, and the override switch function.

If it is necessary to carry out these adjustments, proceed as follows:

1. Remove the six plastic nuts which secure the jack sockets to the rear panel of the controller. Also remove the four screws visible on the rear panel.
2. The rear panel may now be removed, although it will still be attached by means of the mains cable to the circuit board within the unit.
3. Remove the top panel of the unit by sliding it backwards from the slots in the side panels.
4. Located next to the speed control on the circuit board is a set of four small DIP switches as shown in Fig 8. Each switch has two positions. The switches may be adjusted as required.

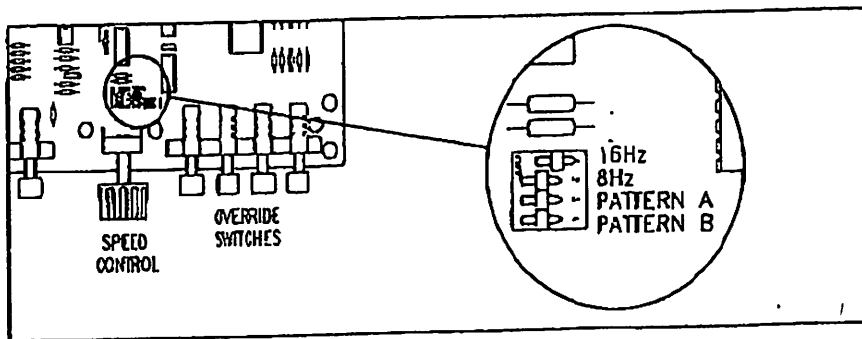


Fig 8. Internal switch settings

5. The top panel and rear panel should now be replaced and secured using the reverse procedure to removal.

8.1. MAXIMUM FLASH RATE

The switches used to set maximum flash rate are switches 1 and 2. Switch 1 is labelled 16Hz, and switch 2 is labelled 8Hz. Only one of these switches must be on at any one time, the other must be off. Under no circumstances must the unit be operated with both of these switches off, or both on.

The maximum flash rate is the maximum at which the lamps will flash in SINGLE mode, and also the fixed flash rate in BURST mode.

If switch 1 is on, the maximum flash rate is set to 16 flashes per second. If switch 2 is on, the maximum is set to 8 flashes per second. This reduced flash rate may be necessary in some areas to conform with local authority regulations.

8.2. OVERRIDE SWITCH FUNCTION

The switch used to set the function of the override switches is switch 3, and is labelled Pattern A.

If switch 3 is off, then the operation of the four override switches is as follows. If any of the override switches is depressed, then the corresponding channels of lamp operation are switched on. The remaining channels are switched off, and the preset sequence is disabled.

If switch 3 is on, then the operation of the four override switches is similar to above except that the preset sequence is not disabled. The lamps are switched on if their corresponding override switch is depressed, and the remaining channels continue to operate according to the preset sequence.

8.3. FACTORY SETTINGS

When the Club Strobeflower controller leaves the factory, the four DIP switches are set as shown in Fig 8. This is as follows:

| | |
|----------|-----|
| Switch 1 | On |
| Switch 2 | Off |
| Switch 3 | Off |
| Switch 4 | Off |

Hence, the maximum flash rate is set to 16 flashes per second, and the override switches disable the preset pattern when depressed.

Switch 4 is not used and must always remain in the off position.

OPTI U S A P.10/13

TO

OPTI LUTON

FROM

15:31

09-OCT-2000

9. TECHNICAL SPECIFICATIONS

CONTROLLER

Four channel Club Strobeflower controller with lamp control and beam control functions .

Mains supply : 240 volts AC $\pm 10\%$, 50/60 Hz
or : 120 volts AC $\pm 10\%$, 50/60 Hz

Mains fuse : 500 mA, Anti-surge, 20 x 5 mm

Remote disable input : 0 - +20 volts DC, ground referenced, 0.25 inch
: mono jack socket, 100k ohms input impedance

Audio input : 0.3 - 100 volts RMS, mono or stereo, 0.25 inch
: stereo jack socket, 30k ohms input impedance

Control outputs : Dual 10mA current loop, 0.25 inch stereo jack socket

Ambient temperature : 0 - 40 degrees centigrade

Protection rating : IP20

Case size : 19 inch rack x 2U high

Overall dimensions : 483 mm x 89 mm x 193 mm (WxHxD)

Depth behind panel : 170 mm (Excluding connectors)

Cut-out size : 445 mm x 88 mm

Fixing centres : 465 mm x 76 mm x 6 mm dia

Nett weight : 2.8 kg

Gross weight : 3.5 kg

Packed size : 525 mm x 170 mm x 280 mm

CLUB STROBEFLOWER SYSTEM INSTRUCTIONS

CLUB STROBEFLOWER

Beam projection lighting head with strobed light source and single speed beam movement.

Mains supply : 240 volts AC $\pm 10\%$, 50/60 Hz
or : 120 volts AC $\pm 10\%$, 50/60 Hz

Mains fuse : 2 amps (240v), 4 amps (120v) Anti-surge, 20 x 5 mm

Control input/output : Dual 10mA current loop, 0.25 inch stereo jack socket

Lamp type : High pressure xenon, short-arc, 40 watt, type OCA-48

Lamp life : 20 million flashes minimum

Total beam spread : 30 degree included angle

Cooling : Fan-cooled via louvres.

Ambient temperature : 0 - 40 degrees centigrade

Protection rating : IP20

Recommended attitude : Mounting at any angle

Overall dimensions : 215 mm x 205 mm x 345 mm (WxHxD)
: (Excluding hanging bracket)

Nett weight : 6.0 kg

Gross weight : 7.3 kg

Packed size : 380 mm x 325 mm x 480 mm

OPTI U S A P.07/13
TO
OPTI LUTON
FROM
15:30
09-OCT-2000

SAFETY PRECAUTIONS

There are several potentially harmful components used within each Club Strobeflower and care must be taken when gaining access to the inside of the unit. The following points must be noted and obeyed at all times. Any operation which involves opening the unit should only be undertaken by qualified service personnel. If in any doubt, the task should be referred to Optikinetics or one of its agents. Under absolutely no circumstances must the Club Strobeflower case be opened when it is in operation. Whilst operating, potentially harmful voltages of several thousand volts are present within the unit. Also, direct viewing of the lamp at close range whilst operating, can result in eye damage and must be avoided. The Club Strobeflower case must not be opened until the unit has been completely disconnected from the mains supply and allowed to stand for at least thirty minutes. This is necessary to allow the stored charge within the unit to decay, avoiding the risk of electric shock. Whilst the unit is open, safety goggles must be worn. The lamp has a high pressure gas filling, and if broken, glass fragments will fly in all directions. These are likely to cause eye damage if goggles are not worn. The lamp must not be touched by hand as greasy marks left will reduce lamp life considerably. Any grease marks on the surface of the glass should be carefully removed using a soft cloth and methylated spirits before use. The case of the Club Strobeflower, controller must not be opened until it has been completely disconnected from the mains supply.

WARNING

The Optikinetics Club Strobeflower system must not be used in the presence of epileptics.

Issue 1 November 1992 Copyright Optikinetics Ltd

All rights reserved. No part of this publication may be reproduced by any means whatsoever without prior permission of Optikinetics Ltd.

OPTI U S A P.08/13

TO

FROM OPTI LUTON

15:30

09-OCT-2000

Optikinetcs Ltd, 38 Cromwell Road, Luton, LU3 1DN, England.
Telephone (0582) 411413, Fax (0582) 400313

