

## INDEXING TWINSPI™ (2 MOTORS) OPERATING INSTRUCTIONS

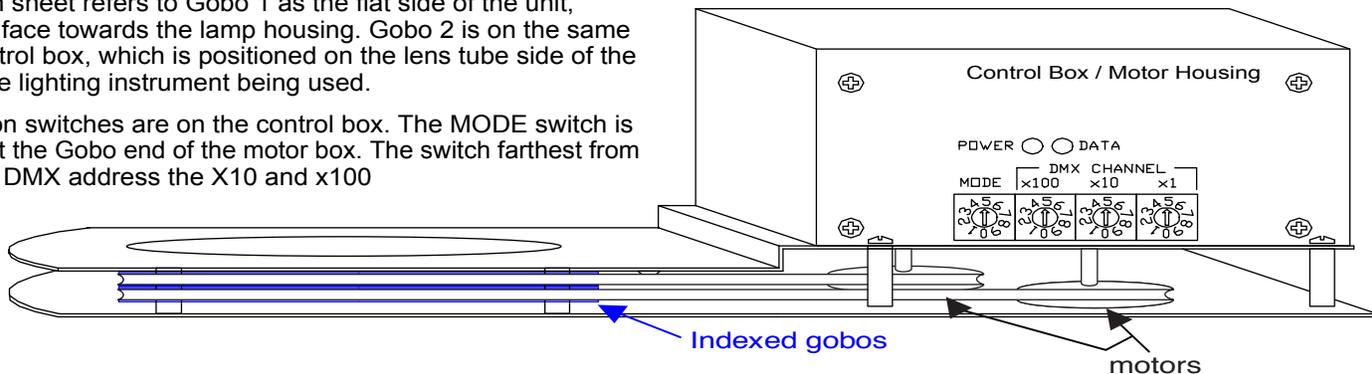
### ----- CAUTION -----

When using a DMX device with a discharge lamp such as CDM or an HMI, it's suggested that you separate the power circuit for the discharge lamp from the DMX control device. When using DMX controlled units such as an Indexing TwinSpin™ or SX4® Gobo Changer or DMX Loop Tray, the "noise" from the discharge lamp ballast may cause some interference and or damage the electronics. For best results we recommend providing separate line voltage to the DMX devices and the discharge light fixture.

The GAM Indexing TwinSpin™ is a double rotator with separate motors - one for each pattern allowing for individual control of speed and direction for each Gobo.

This instruction sheet refers to Gobo 1 as the flat side of the unit, which will also face towards the lamp housing. Gobo 2 is on the same side of the control box, which is positioned on the lens tube side of the effect slot in the lighting instrument being used.

Four 10-position switches are on the control box. The MODE switch is the one nearest the Gobo end of the motor box. The switch farthest from the gobo is X1 DMX address the X10 and x100



- There are five programmable DMX controlled modes and four built-in pre-programmed effects which don't require a DMX signal.
- The GAM indexing rotator is controlled by the DMX512 protocol and is powered by 24 volts DC, either from most color scroller power supplies or a standalone power supply.\*
- Once powered, the unit will show a red power LED to indicate the power is on. The unit is also fitted with a green LED which indicates the status of operation.
- At power on, the unit needs to initialize to find the home position of the Gobos. This takes about 2 seconds during which time the green LED will flash. Once the home sensing is complete, the flashing will stop. If the LED is not lit, then there is no DMX signal present. If the LED continues flashing, it means there has been a fault detecting the sensor. The unit will operate but without the correct index positioning.
- Mode and channel switches can be operated with the power on. A small delay will take place to correctly accept any new settings on the switches.

**INSTALLING PATTERNS** - Install the patterns in the Gobo holders using the provided retaining rings. Older warped patterns should be installed with the bent parts bowed away from each other so they won't catch when rotating. You must 'Burn in' new patterns before rotating for the first time by placing the TwinSpin™ (with the patterns mounted) in the fixture and the lamp at full for approximately two minutes. Do not rotate the gobos. Failure to 'Burn in' will most likely result in a jam.

If the patterns catch on each other or the retaining ring is not properly secured and slips, the TwinSpin™ may jam and stop turning. Turn off motor and light as soon as possible and remove the unit to free the jam.

**PREPARE THE FIXTURE** - Before installing the TwinSpin™ in the fixture, it is important to align the lamp. The circle of light should be as smooth and even as possible, without hot spots.

**INSTALLING THE TwinSpin™** - Slide the TwinSpin™ straight down into the iris slot (the wide slot right in front of the pattern slot). Make sure it is seated straight and as far down as it will go. Secure the 4-pin cable so that it does not contact the hot lamp housing

**Please Note;** The TwinSpin™ is not intended for use in the older 1000W ellipsoidal spotlights. For continuous applications we suggest the new cool beam units such as the ETC Source IV, the Altman Shakespeare or the Strand SL and other cool beam type units.

\* The connections via the 4-pin XLR connector are as follows;

Pin 1 -24 V DC	Pin 2 DMX signal, re-routed
Pin 4 +24 V DC	Pin 3 DMX signal, re-routed

Unit will function properly on reversed polarity (as found on some color changer supplies).

Each unit has a male XLR input connector and a female XLR (with power and DMX signal feed through) allowing daisy chaining multiple TwinSpins™ and scrollers on one line.

The current draw of the unit is about 500ma. If using many units on one supply, make sure the total current draw of TwinSpins™ and scrollers does not exceed the supply limits. As well, make sure the 4-pin cables (especially at the beginning of the chain) can handle the load.